

November 30, 2004

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

Subject: Duke Energy Company  
Oconee Nuclear Station, Unit 3  
Docket No. 50-287  
Fourth Ten-Year Inservice Inspection Interval Plan

Attached for your review are documents describing the Oconee Unit 3 Fourth Ten-Year Interval Inservice Inspection (ISI) Program. These documents also address the ISI Program for Keowee Units 1 and 2. The Unit 3 Fourth Ten-Year interval starts on December 16, 2004 and goes through December 16, 2014.

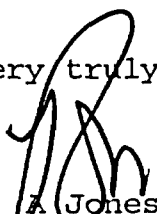
The attachments include:

- A) two volumes of the Inservice Inspection Plan:
  - i) ISI General Requirements
  - ii) Unit 3 ISI Examination Listing and Schedule
- B) the ISI Pressure Test Plan.

This plan is similar to the Fourth Ten-Year ISI Plan for Unit 1 which was submitted by letter dated November 5, 2003 and the plan for Unit 2 submitted by letter dated July 6, 2004.

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

Very truly yours,

  
R. A. Jones,  
Site Vice-President  
Oconee Nuclear Station

Attachments

A047

U. S. Nuclear Regulatory Commission  
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**Duke Energy Corporation  
Oconee Nuclear Station Unit 3  
Keowee Hydro Station Units 1 & 2**

**FOURTH INSPECTION INTERVAL  
INSERVICE INSPECTION  
PRESSURE TEST PLAN**

Revision 0

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Plant Location: Hwy 130/183  
Seneca, South Carolina 29672

Commercial Service Date: December 16, 1974

Fourth Interval Start Date: December 16, 2004

Owner: Duke Energy Corporation  
526 South Church St.  
Mail Code EC05A  
Charlotte, N. C. 28201-1006

<u>Start Date</u>			<u>End Date</u>
12/16/2004	12/16/2007	12/16/2011	12/16/2014
1st Period	2nd Period	3rd Period	
Refueling Outage 1 (EOC 22)	Refueling Outage 3 (EOC 24)	Refueling Outage 5 (EOC 26)	
Refueling Outage 2 (EOC 23)	Refueling Outage 4 (EOC 25)	Refueling Outage 6 (EOC 27)	

Prepared By: Jim Boughman Date 9/9/04  
Reviewed By: Paul W. Waltman Date 9/16/04  
Approved By: R. Kevin Rhyme Date 10/25/04  
ANII Review: [Signature] Date 11/4/04

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**1****Applicable Codes and Standards for Inservice Inspection Pressure Testing**

This document constitutes the inservice inspection pressure testing plan and schedules for the fourth inspection interval for Oconee Unit 3 and Keowee Units 1 & 2 (the Keowee units provide the main source of emergency power for the Oconee units). All further reference to Oconee Unit 3 in this document includes Keowee Units 1 & 2 automatically. All pressure retaining components classified as ISI Class 1, 2, and 3 have been reviewed to determine the inservice inspection pressure test examination requirements.

Inservice inspection pressure testing activities for Oconee Unit 3 shall be performed in accordance with Program B of the 1998 Edition of ASME Section XI, through the 2000 Addenda.

The NRC revised the pressure and temperature hold time requirements in Title 10, Code of Federal Regulations, Part 50.55a (b)(2)(xx), published January 1, 2003. When performing system leakage tests in accordance with IWA-5213(a), a 10-minute hold time after attaining test pressure is required for Class 2 and Class 3 components that are not in use during normal operating conditions, and no hold time is required for the remaining Class 2 and Class 3 components provided that the system has been in operation for at least 4 hours for insulated components or 10 minutes for uninsulated components.

At the writing of this plan, there are no Code Cases that provide a suitable alternative for the Pressure Testing Program at Oconee Unit 3.

**2****Inspection Methods and Procedures to be Used for Inservice Inspection Pressure Testing**

VT-2 visual examinations shall be conducted to locate evidence of leakage from pressure retaining components during the conduct of a system pressure test.

Pressure testing and associated VT-2 visual examinations shall be performed using the latest revision of procedure QAL-15 "Inservice Inspection (ISI) Visual Examination, VT-2, Pressure Test".

The following Duke Energy procedures and directives shall be used to control pressure testing inservice inspection activities, Inservice Inspection Pressure Testing Plans, Pressure Test Database Management System, and Inservice Inspection Pressure Test Reports:

Procedure No:	Title:
NSD-300	ASME Section XI Program
NSD-701	Records Management
NSD-702	Document Management
NSD-800	Software and Data Quality Assurance (SDQA) Program
QA-520	Preparation and Distribution of Inservice Inspection Reports
QA-522	Preparation and Implementation of the Inservice Inspection Pressure Testing Plans
QA-524	ISI Pressure Testing Process
QAL-5	Control Of Preservice And Inservice Inspection Activities
QAL-15	Inservice Inspection (ISI) Visual Examination, VT-2, Pressure Test

Pressure testing of ISI Class 1 items shall be performed in accordance with the requirements of Articles IWA-5000, IWB-2000, and IWB-5000 of Section XI. ISI Class 1 systems that are required to be pressure tested shall be divided into isolable areas (to the extent practical). These areas represent specific pressure testing zones (hereafter referred to as examination zones).

*Examination Categories and Requirements:*

The examination categories and item numbers shall be those listed in Table IWB-2500-1 of Section XI. Each examination zone may include various Section XI categories and item numbers.

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

The ISI Class 1 System Leakage Test (IWB-5220) is conducted at a pressure not less than the pressure corresponding to 100% rated reactor power. The test pressure and temperature shall be attained at a rate in accordance with the heat-up limitations specified for the system. The ISI Class 1 System Leakage Test is required prior to plant startup following each reactor refueling.

The pressure-retaining boundary during the ISI Class 1 System Leakage Test conducted at or near the end of each inspection interval shall extend to all ISI Class 1 pressure-retaining components within the system boundary. This test is required only once during a ten-year interval.

**Table IWB-2500-1 Item**

**Component To Be Examined**

*Reactor Vessel*

B15.10 Pressure Retaining Boundary

*Pressurizer*

B15.20 Pressure Retaining Boundary

*Steam Generators*

B15.30 Pressure Retaining Boundary

*Heat Exchangers*

B15.40 Pressure Retaining Boundary

*Piping*

B15.50 Pressure Retaining Boundary

*Pumps*

B15.60 Pressure Retaining Boundary

*Valves*

B15.70 Pressure Retaining Boundary

Pressure testing of ISI Class 2 items shall be performed in accordance with the requirements of Articles IWA-5000, IWC-2000, and IWC-5000 of Section XI. ISI Class 2 systems that are required to be pressure tested shall be divided into isolable areas (to the extent practical). These areas represent specific examination zones.

**Examination Categories and Requirements:**

The examination categories and item numbers shall be those listed in Table IWC-2500-1 of Section XI. Each examination zone may include various Section XI categories and item numbers.

**Category C-B, Pressure Retaining Nozzle Welds In Vessels**

When nozzle-to-shell (nozzle to head or nozzle to nozzle) welds (to be examined by NDE methods) are inaccessible, the telltale hole in the reinforcing plates shall receive a VT-2 visual examination for evidence of leakage while the vessel is undergoing the System Leakage Test as required by Category C-H. The ISI Class 2 leakage test is required once in each inspection period.

<u>Table IWC-2500-1 Item</u>	<u>Component To Be Examined</u>
C2.30	Nozzles With Reinforcing Plate in Vessels > 1/2 in. Nominal Thickness
C2.33	Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Welds When Inside of Vessel is Inaccessible

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

The ISI Class 2 System Leakage Test (IWC-5220) is conducted at the system pressure obtained while the system, or portion of the system, is in service performing its normal operating function or at the system pressure developed during a test conducted to verify system operability. The ISI Class 2 leakage test is required once in each inspection period.

<u>Table IWC-2500-1 Item</u>	<u>Component To Be Examined</u>
C7.10	Pressure Retaining Components

Pressure testing of ISI Class 3 items shall be performed in accordance with the requirements of Articles IWA-5000, IWD-2000, and IWD-5000 of Section XI. ISI Class 3 systems that are required to be pressure tested shall be divided into isolable areas (to the extent practical). These areas represent specific examination zones.

Examination Categories and Requirements:

The examination categories and item numbers shall be those listed in Table IWD-2500-1 of Section XI. Each examination zone may include various Section XI categories and item numbers.

**Category D-B, All Pressure Retaining Components**

The ISI Class 3 System Leakage Test (IWD-5221) is conducted at the system pressure obtained while the system, or portion of the system, is in service performing its normal operating function or at the system pressure developed during a test conducted to verify system operability. The ISI Class 3 leakage test is required once in each inspection period.

<u>IWD-2500-1 Item</u>	<u>Component to be Examined</u>	<u>Comments</u>
D2.10	Pressure Retaining Components	
D2.20	Pressure Retaining Components	No hydro test required. See Request for Relief serial number 04-ON-001.

<b>6</b>	<b>System Boundaries Subject to Examination</b>
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Unless otherwise noted, systems designated as ISI Class A are equivalent to ASME Class 1, those designated as ISI Class B are equivalent to ASME Class 2, and those designated as ISI Class C are equivalent to ASME Class 3.

The following color codes, shown on electronic pressure testing boundary drawings, are used to represent the boundaries subject to pressure testing:

Red	=	ISI Class A
Yellow	=	ISI Class B
Green	=	ISI Class C
Blue	=	Components exempt from pressure testing requirements
Magenta	=	Boundary line showing the extremities of pressure testing examination zones
Black	=	Non ISI Class components

All instrumentation taps within the examination boundary shall be examined up to the first isolation valve off the process pipe.

<b>7</b>	<b>Components Exempt From Pressure Test Examination</b>
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Boundary drawings that are exclusively for showing pressure testing exemptions are listed in Section 11 of this document. The following are examples of pressure test exemptions:

- Non pressure retaining portion of Reactor Coolant Pumps.
- Open ended portions of ISI Class 2 and 3 discharge piping (this does not apply to repair/replacement activities related to pressure testing).
- ISI Class 2 and ISI Class 3 portions of systems that do not support the system safety function beyond the first normally closed valve (including relief valves or valves capable of automatic closure).
- Containment penetrations where the piping and isolation valves perform a containment function and the balance of the piping system is outside the scope of Section XI.
- Systems/components determined as optionally owner classified ISI Class 2 or ISI Class 3 per Section XI, IWA-1320(e).

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**Description of Examination Schedules**

All system pressure testing is completed in accordance with the schedule shown in the Section XI Tables for each examination category. The examination periods are derived from "Program B" of the Section XI Code.

The ISI Class 1 System Leakage Test zone shall be completed each refueling outage. The ISI Class 1 System Leakage Test zone requirements are not scheduled on an outage-by-outage basis given that the examinations are required to be completed for each refueling outage.

The ISI Class 2 and 3 System Leakage Test zones shall be examined once during each inspection period. The ISI Class 2 and 3 System Leakage Test zones are not scheduled on an outage-by-outage basis given that they are required to be 100 percent complete by the end of the inspection period rather than a minimum/maximum percentage each inspection period.

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**Requests for Relief from ASME Code Requirements**

Each Request for Relief from a requirement of the Section XI Code specified in this Plan shall be submitted by the Nuclear Generation Department to the Nuclear Regulatory Commission for approval.

The following is a listing of the Requests for Relief submitted for use at Oconee Unit 3:

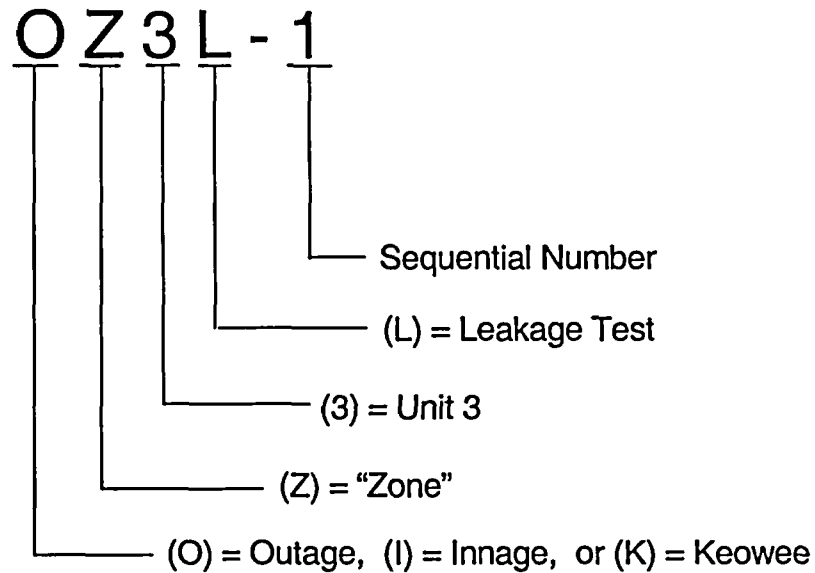
Serial Number	Description	Date RFR Submitted	Date SER Approved	Comments
04-ON-001	Request to use corrected ASME Code requirement for Class 3 pressure tests.	9/22/04	Pending	

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**Examination Zone Listing & Associated Boundary Drawings**

The Examination Zones, shown on electronic pressure testing boundary drawings, represent an area of a system that shall receive a VT-2 visual examination. An Examination Zone terminates at a boundary valve, building interface, or component interface and may include components shown on several boundary drawings. The Examination Zone includes all pressure retaining components within the scope of the boundary valves/extremity interfaces.

All Oconee Unit 3 Examination Zone numbers have the same format. The following example is for an ISI Class I System Leakage Test zone:



#### **Pressure Testing Examination Zone Report**

A listing of the Pressure Testing zone numbers, schedules, and associated inspection information is shown on the following pages:

Date: 09/09/2004  
Report Page No. 1

Duke Energy Corporation  
**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-45	O-ISIL4-121A-1.8	--- --- C	--- --- D-B	Condensate	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-44	O-ISIL4-121D-1.2	--- B ---	--- C-H ---	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-70	O-ISIL4-121D-1.2	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-60	O-ISIL4-124A-1.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-44	O-ISIL4-133A-2.5	--- --- C	--- --- D-B	Condenser Circulating Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-66	O-ISIL4-133A-3.2	--- --- C	--- --- D-B	Condenser Circulating Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-1A	O-ISIL4-100A-3.1	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.10 B15.30 B15.50 B15.60 B15.70
OZ3L-1A	O-ISIL4-100A-3.2	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.20 B15.50 B15.70
OZ3L-1A	O-ISIL4-100A-3.3	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.60 B15.70
OZ3L-2	O-ISIL4-100A-3.3	--- --- C	--- --- D-B	Reactor Coolant Pump Seal Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-1A	O-ISIL4-101A-3.1	A B ---	B-P C-H ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70 C7.10
OZ3L-2	O-ISIL4-101A-3.1	--- B C	--- C-H D-B	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10

Date: 09/09/2004

Report Page No. 2

Duke Energy Corporation  
**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-3	O-ISIL4-101A-3.1	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-4	O-ISIL4-101A-3.1	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-5	O-ISIL4-101A-3.1	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-6	O-ISIL4-101A-3.1	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-6	O-ISIL4-101A-3.2	--- B C	--- C-H D-B	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-7	O-ISIL4-101A-3.2	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-17	O-ISIL4-101A-3.2	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-18	O-ISIL4-101A-3.2	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-23	O-ISIL4-101A-3.2	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-5	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-22	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-10	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-11	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-12	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10



Date: 09/09/2004  
Report Page No. 3

Duke Energy Corporation  
**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
IZ3L-13	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-14A	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-20	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-7	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-7B	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-9	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-14B	O-ISIL4-101A-3.3	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-1A	O-ISIL4-101A-3.4	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-1AA	O-ISIL4-101A-3.4	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-1Z	O-ISIL4-101A-3.4	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-2	O-ISIL4-101A-3.4	--- B C	--- C-H D-B	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-12	O-ISIL4-101A-3.4	--- B C	--- C-H D-B	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-14B	O-ISIL4-101A-3.4	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10

Date: 09/09/2004  
Report Page No. 4

Duke Energy Corporation  
**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-15	O-ISIL4-101A-3.4	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-16	O-ISIL4-101A-3.4	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-2	O-ISIL4-101A-3.5	--- B C	--- C-H D-B	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-19A	O-ISIL4-101A-3.5	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-1A	O-ISIL4-102A-3.1	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-1W	O-ISIL4-102A-3.1	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-1X	O-ISIL4-102A-3.1	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
IZ3L-22	O-ISIL4-102A-3.1	--- B C	--- C-H D-B	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-24	O-ISIL4-102A-3.1	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-25	O-ISIL4-102A-3.1	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-21	O-ISIL4-102A-3.1	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-23	O-ISIL4-102A-3.1	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-98	O-ISIL4-102A-3.2	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70

Date: 09/09/2004  
Report Page No. 5

Duke Energy Corporation  
**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-99	O-ISIL4-102A-3.2	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
IZ3L-22	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-7B	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-9	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-23	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-26	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-27	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-28	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-29	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-30	O-ISIL4-102A-3.2	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-1A	O-ISIL4-102A-3.3	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-98	O-ISIL4-102A-3.3	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-99	O-ISIL4-102A-3.3	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70

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**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-31A	O-ISIL4-102A-3.3	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-31B	O-ISIL4-102A-3.3	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-31C	O-ISIL4-102A-3.3	--- B ---	--- C-H ---	Low Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-24	O-ISIL4-103A-3.1	--- B ---	--- C-H ---	Reactor Building Spray	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-25	O-ISIL4-103A-3.1	--- B ---	--- C-H ---	Reactor Building Spray	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-19A	O-ISIL4-104A-3.1	--- B ---	--- C-H ---	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-39	O-ISIL4-104A-3.1	--- B ---	--- C-H ---	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-22	O-ISIL4-104A-3.1	--- B ---	--- C-H ---	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-36	O-ISIL4-104A-3.1	--- --- C	--- --- D-B	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-37	O-ISIL4-104A-3.1	--- --- C	--- --- D-B	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-38	O-ISIL4-104A-3.1	--- --- C	--- --- D-B	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-82	O-ISIL4-104A-3.1	--- --- ---	--- --- ---	Spent Fuel Cooling		22 23 24 25 26 27	Leakage	VT-2	QAL-15	D3.11
OZ3L-23	O-ISIL4-104A-3.2	--- B ---	--- C-H ---	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-22	O-ISIL4-106A-3.2	--- --- C	--- --- D-B	Coolant Treatment	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10

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**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-6	O-ISIL4-109A-3.1	--- B ---	--- C-H ---	Purification Demineralizers	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-40	O-ISIL4-109A-3.1	--- B ---	--- C-H ---	Purification Demineralizers	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-41	O-ISIL4-109A-3.1	--- B ---	--- C-H ---	Purification Demineralizers	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-1A	O-ISIL4-110A-3.1	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-42A	O-ISIL4-110A-3.1	--- B ---	--- C-H ---	Chemical Addition	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-42B	O-ISIL4-110A-3.1	--- B ---	--- C-H ---	Chemical Addition	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-44	O-ISIL4-110A-3.1	--- B ---	--- C-H ---	Chemical Addition	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-6	O-ISIL4-110A-3.1	--- --- C	--- --- D-B	Chemical Addition	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-1A	O-ISIL4-110A-3.4	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-89	O-ISIL4-116C-3.1	--- B ---	--- C-H ---	Reactor Building Hydrogen Purge	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-90	O-ISIL4-116C-3.1	--- B ---	--- C-H ---	Reactor Building Hydrogen Purge	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-91	O-ISIL4-116C-3.1	--- B ---	--- C-H ---	Reactor Building Hydrogen Purge	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10

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**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-43	O-ISIL4-121A-3.3	--- --- C	--- --- D-B	Condensate	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-45	O-ISIL4-121A-3.7	--- --- C	--- --- D-B	Condensate	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-43	O-ISIL4-121A-3.8	--- --- C	--- --- D-B	Condensate	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-45	O-ISIL4-121A-3.8	--- --- C	--- --- D-B	Condensate	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-44	O-ISIL4-121B-3.3	--- B C	--- C-H D-B	Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-44	O-ISIL4-121B-3.5	--- B C	--- C-H D-B	Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-44	O-ISIL4-121D-3.1	--- B C	--- C-H D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-54	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-55	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-56	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-70	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-45	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-50	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-52	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10

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**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
IZ3L-53	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-44	O-ISIL4-122A-3.1	--- B ---	--- C-H ---	Main Steam	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-48	O-ISIL4-122A-3.1	--- B ---	--- C-H ---	Main Steam	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-48	O-ISIL4-122A-3.2	--- B ---	--- C-H ---	Main Steam	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-48	O-ISIL4-122A-3.3	--- B ---	--- C-H ---	Main Steam	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-48	O-ISIL4-122A-3.4	--- B C	--- C-H D-B	Main Steam	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-48	O-ISIL4-122B-3.1	--- B ---	--- C-H ---	Main Steam	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-60	O-ISIL4-124A-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-61	O-ISIL4-124A-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-62	O-ISIL4-124A-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-60	O-ISIL4-124A-3.3	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-58	O-ISIL4-124B-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-59	O-ISIL4-124B-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-49	O-ISIL4-124B-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10

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**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
IZ3L-60	O-ISIL4-124B-3.1	--- --- C	--- --- D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-64	O-ISIL4-124B-3.2	--- B ---	--- C-H ---	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-60	O-ISIL4-124B-3.2	--- B C	--- C-H D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-65	O-ISIL4-124B-3.4	--- B ---	--- C-H ---	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-60	O-ISIL4-124B-3.4	--- B C	--- C-H D-B	Low Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
IZ3L-60	O-ISIL4-124C-3.2	--- --- C	--- --- D-B	High Pressure Service Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-68	O-ISIL4-144A-3.2	--- --- C	--- --- D-B	Component Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ1L-1	K-ISIL4-100A-1.1	--- --- C	--- --- D-B	Turbine Generator Cooling Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ2L-1	K-ISIL4-100A-1.1	--- --- C	--- --- D-B	Turbine Generator Cooling Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ2L-1	K-ISIL4-100A-2.1	--- --- C	--- --- D-B	Turbine Generator Cooling Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ1L-2	K-ISIL4-101A-1.1	--- --- C	--- --- D-B	Turbine Guide Bearing Oil	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ1L-7	K-ISIL4-101A-1.1	--- --- C	--- --- D-B	Turbine Guide Bearing Oil	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ2L-2	K-ISIL4-101A-2.1	--- --- C	--- --- D-B	Turbine Guide Bearing Oil	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10



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**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
KZ2L-7	K-ISIL4-101A-2.1	--- --- C	--- --- D-B	Turbine Guide Bearing Oil	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ1L-3	K-ISIL4-102A-1.1	--- --- C	--- --- D-B	Turbine Sump Pump	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ1L-4	K-ISIL4-102A-1.1	--- --- C	--- --- D-B	Turbine Sump Pump	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ2L-3	K-ISIL4-102A-2.1	--- --- C	--- --- D-B	Turbine Sump Pump	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ2L-4	K-ISIL4-102A-2.1	--- --- C	--- --- D-B	Turbine Sump Pump	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ1L-6	K-ISIL4-105A-1.1	--- --- C	--- --- D-B	Governor Oil	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
KZ2L-6	K-ISIL4-105A-2.1	--- --- C	--- --- D-B	Governor Oil	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-83	O-ISIL4-104A-3.1	--- --- C	--- --- D-B	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
IZ3L-83	O-ISIL4-104A-3.2	--- --- C	--- --- D-B	Spent Fuel Cooling	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-17B	O-ISIL4-101A-3.2	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-85	O-ISIL4-133A-2.5	--- --- C	--- --- D-B	Condenser Circulating Water	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-19B	O-ISIL4-101A-3.5	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-1V	O-ISIL4-100A-3.2	A --- ---	B-P --- ---	Reactor Coolant	Each Refueling Outage	22 23 24 25 26 27	Leakage	VT-2	QAL-15	B15.50 B15.70
OZ3L-84	O-ISIL4-121D-2.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10

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**Oconee Unit 3 - 4th 10-Year Interval**  
**Pressure Testing Examination Zone Report**

Zone No.	Dwg. No.	ISI Class	ISI Category	System	Examination Frequency	Examination Outage Schedule	Req. Test	Req. Exam	Req. Proc.	ASME Item No.
OZ3L-84	O-ISIL4-121D-3.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10
OZ3L-1A	O-ISIL4-101A-3.5	--- B ---	--- C-H ---	High Pressure Injection	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	C7.10
OZ3L-84	O-ISIL4-121D-1.1	--- --- C	--- --- D-B	Emergency Feedwater	Each Period	22 23 24 25 26 27	Leakage	VT-2	QAL-15	D2.10

The pressure testing examination boundaries are identified on color coded electronic drawings (modified system flow diagrams) and stored in the Nuclear Electronic Document Library (NEDL). "As Built" system flow diagram revisions are reviewed to see if the revision had any impact on the pressure testing boundaries. These flow diagram revisions are incorporated into the Inservice Inspection pressure testing boundary drawings as necessary. Some flow diagram revisions do not affect the pressure testing boundaries; therefore, the pressure testing boundary drawings are not required to be revised. For this reason, there may be a difference between the numeric revision level listed on the flow diagram versus the revision level of the flow diagram referenced on the pressure testing boundary drawing. The latest revision of the pressure testing boundary drawing can be retrieved from NEDL.

The following is a list of the system flow diagrams that contain ASME Section XI Class 1, 2, or 3 components. Each drawing has been reviewed for applicable system pressure testing requirements. In addition to the ISI class, the listing contains those flow diagrams that are exempted from pressure testing requirements for Oconee Unit 3.

System (as listed in drawing title block)	Boundary Drawing	ISI Class 1	ISI Class 2	ISI Class 3	All Exempt
Reactor Coolant	O-ISIL4-100A-3.1	X	X		
Reactor Coolant (Pressurizer)	O-ISIL4-100A-3.2	X	X	X	
Reactor Coolant (Pump Seal Injection)	O-ISIL4-100A-3.3	X		X	
High Pressure Injection (Letdown)	O-ISIL4-101A-3.1	X	X	X	
High Pressure Injection (Storage)	O-ISIL4-101A-3.2		X	X	
High Pressure Injection (Charging)	O-ISIL4-101A-3.3		X		
High Pressure Injection (Charging)	O-ISIL4-101A-3.4	X	X	X	
High Pressure Injection (SSF)	O-ISIL4-101A-3.5		X	X	
Low Pressure Injection (Borated Water Supply & LPI Pump Suction)	O-ISIL4-102A-3.1	X	X	X	
Low Pressure Injection (LPI Pump Discharge)	O-ISIL4-102A-3.2	X	X		
Low Pressure Injection (Core Flood)	O-ISIL4-102A-3.3	X	X		
Reactor Building Spray	O-ISIL4-103A-3.1		X		
Spent Fuel Cooling	O-ISIL4-104A-3.1		X	X	
Spent Fuel Cooling (Purification)	O-ISIL4-104A-3.2		X	X	
Low Pressure Injection (CBAST)	O-ISIL4-106A-3.2			X	
Demineralized Water (Containment Penetration)	O-ISIL4-106E-3.1		X		X
Quench Tank (Containment Penetration)	O-ISIL4-107A-3.1		X		X
Coolant Storage (Containment Penetration)	O-ISIL4-107A-3.2		X		X
Liquid Waste Disposal (Containment Penetration)	O-ISIL4-107B-3.1		X		X
Liquid Waste Disposal (Containment Penetration)	O-ISIL4-107D-3.2		X		X

System	Boundary Drawing	ISI Class 1	ISI Class 2	ISI Class 3	All Exempt
Purification Demineralizers (Primary Sample Hood)	O-ISIL4-109A-3.1		X	X	
Chemical Addition	O-ISIL4-110A-3.1	X	X	X	
Chemical Addition (Containment Penetration)	O-ISIL4-110A-3.3		X	X	X
Chemical Addition (Post Accident Liquid Sampling)	O-ISIL4-110A-3.4	X	X	X	
Reactor Building Purge (Containment Penetration)	O-ISIL4-116A-3.1		X		X
Penetration Room Ventilation	O-ISIL4-116B-3.1			X	X
Reactor Building Hydrogen Purge	O-ISIL4-116C-3.1		X		
Condensate (Emergency Feedwater Pump Suction)	O-ISIL4-121A-1.8			X	
Condensate (Main Condenser)	O-ISIL4-121A-3.3			X	
Condensate (Upper Surge Tanks)	O-ISIL4-121A-3.7			X	
Condensate (Emergency Feedwater Pump Suction)	O-ISIL4-121A-3.8			X	
Feedwater	O-ISIL4-121B-3.3		X	X	
Feedwater (Steam Generator Drain & Recirc.)	O-ISIL4-121B-3.5		X	X	
Vacuum (Continuous Priming)	O-ISIL4-121C-3.1			X	X
Emergency Feedwater	O-ISIL4-121D-1.1		X	X	
Emergency Feedwater (Auxiliary Service Water)	O-ISIL4-121D-1.2		X	X	
Emergency Feedwater	O-ISIL4-121D-2.1		X	X	
Emergency Feedwater	O-ISIL4-121D-3.1		X	X	
Main Steam (Headers)	O-ISIL4-122A-3.1		X	X	
Main Steam (Turbine Bypass)	O-ISIL4-122A-3.2		X		
Main Steam	O-ISIL4-122A-3.3		X		
Main Steam (Steam Supply & Exhaust)	O-ISIL4-122A-3.4		X	X	
Main Steam	O-ISIL4-122B-3.1		X		
Low Pressure Service Water (Pumps)	O-ISIL4-124A-1.1			X	
Low Pressure Service Water (Pumps)	O-ISIL4-124A-3.1			X	
Low Pressure Service Water (Turbine Building Services)	O-ISIL4-124A-3.3			X	
Low Pressure Service Water (Auxiliary Building)	O-ISIL4-124B-3.1			X	
Low Pressure Service Water (Reactor Building Cooling)	O-ISIL4-124B-3.2		X	X	
Low Pressure Service Water (Reactor Coolant Pump Motor Cooling)	O-ISIL4-124B-3.4		X	X	
High Pressure Service Water (Turbine Building)	O-ISIL4-124C-3.2			X	

System	Boundary Drawing	ISI Class 1	ISI Class 2	ISI Class 3	All Exempt
Nitrogen Purge and Blanket (Reactor Building)	O-ISIL4-127B-3.2		X		X
Condenser Circulation Water (SSF Aux Service)	O-ISIL4-133A-2.5			X	
Condenser Circulation Water (Intake & Discharge)	O-ISIL4-133A-3.2			X	
Lube Oil (Emergency Feedwater Pump Turbine)	O-ISIL4-135B-3.2			X	X
Breathing Air (Containment Penetration)	O-ISIL4-137A-3.3		X		X
Component Cooling (Reactor Building Heat Exchangers)	O-ISIL4-144A-3.2		X	X	
Component Cooling (CRDM)	O-ISIL4-144A-3.3		X		X
<b>Keowee</b>					
Turbine Generator Cooling Water	K-ISIL4-100A-1.1			X	
Turbine Generator Cooling Water	K-ISIL4-100A-2.1			X	
Turbine Guide Bearing Oil	K-ISIL4-101A-1.1			X	
Turbine Guide Bearing Oil	K-ISIL4-101A-2.1			X	
Turbine Sump Pump	K-ISIL4-102A-1.1			X	
Turbine Sump Pump	K-ISIL4-102A-2.1			X	
Governor Air	K-ISIL4-104A-1.1			X	X
Governor Air	K-ISIL4-104A-2.1			X	X
Governor Oil	K-ISIL4-105A-1.1			X	
Governor Oil	K-ISIL4-105A-2.1			X	
Air Circuit Breaker	K-ISIL4-107A-1.1			X	X

**FOURTH  
TEN-YEAR  
INTERVAL  
INSERVICE INSPECTION PLAN**

**DUKE POWER COMPANY  
OCONEE NUCLEAR STATION  
GENERAL REQUIREMENTS**



*A Duke Energy Company*

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FOURTH INTERVAL INSERVICE INSPECTION PLAN

OCONEE NUCLEAR STATION UNIT 3

and

KEOWEE HYDRO STATION UNITS 1 & 2

GENERAL REQUIREMENTS

REVISION 0

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*A Duke Energy Company*

Prepared By: *James E. Cherry*

Date *11/17/2004*

Reviewed By: *Larry C. Keith*

Date *11-17-04*

Approved By: *L. Kevin Rhyme*

Date *11/17/04*

ANII Review: *[Signature]*

Date *11/18/04*

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Inservice Inspection Plan

L. C. Keith

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Oconee Nuclear Station  
General Requirements

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## **OCONEE NUCLEAR STATION**

**and**

## **KEOWEE HYDRO STATION**

### **GENERAL INFORMATION**

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Oconee Nuclear Station's Inservice Inspection Plan is comprised of two separate volumes, the first is General Requirements; the second is identified as Unit 3.

Keowee Hydro Station provides emergency back up power for Oconee. The inservice inspection plan for Keowee has been included with Oconee Unit 3.

**Plant Location:** Highway 130/183 Seneca, South Carolina 29672

**Commercial Service Date:**

Oconee Unit 3	December 16, 1974
Keowee Units 1 and 2	April 4, 1971

**Fourth Interval Start Date:**

Oconee Unit 3	December 16, 2004
Keowee Units 1 and 2	December 16, 2004

**Fourth Interval End Date:**

Oconee Unit 3	December 16, 2014
Keowee Units 1 and 2	December 16, 2014

**Owner:** Duke Energy Corporation  
526 South Church St.  
Mail Code EC05A  
Charlotte, N. C. 28201-1006



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2	Oconee Unit 3 and Keowee Units 1 & 2 Inservice Inspection List of Reference Drawings	0

## **1.0 Applicable Codes and Standards for Inservice Inspection**

In accordance with the requirements of Paragraphs 50.55a (b)(2) and (g) of 10CFR Part 50 (effective date October 28, 2002), the inservice inspection of Unit 3 of the Oconee Nuclear Station and Keowee Hydro Station Units 1 & 2 will be performed in accordance with Inspection Program B of the 1998 Edition of ASME Section XI, thru the 2000 Addenda, hereafter referred to as Section XI, subject to the following limitations and modifications:

Paragraph IWB-1220, shall be performed in accordance with 1989 Edition of ASME Section XI as required per Paragraph 50.55a(b)(2)(xi) of 10CFR Part 50.

Paragraph IWB-2500-1, Examination Category B-D (items B3.120 and B3.140) shall be performed in accordance with 1998 Edition of ASME Section XI as required per Paragraph 50.55a(b)(2)(xxi)(A) of 10CFR Part 50. This paragraph allows a VT examination with enhanced magnification to be performed in lieu of the UT examination.

Paragraph IWB-2500-1, Examination Category B-G-2 (items B7.80) shall be performed in accordance with 1995 Addenda of ASME Section XI as required per Paragraph 50.55a(b)(2)(xxi)(B) of 10CFR Part 50.

Paragraph IWB-2500-1, Examination Category B-K (items B10.10) shall be performed in accordance with 1995 Edition of ASME Section XI as required per Paragraph 50.55a(b)(2)(xxi)(C) of 10CFR Part 50.

All examinations will be performed to the extent practicable within the limitations of design, geometry and materials of construction of the component.

## **1.1 Additional Codes and Standards Used**

Inspections performed in addition to those required by Section XI are described in Section 7.0 of this Plan. The following codes and standards apply to these inspections:

- 1.1.1 Reactor coolant pump flywheels will be inspected as required by the Oconee Improved Technical Specifications for Oconee Nuclear Station.
- 1.1.2 Steam generator tubing will be inspected as required by ASME Section XI and the Oconee Improved Technical Specifications for Oconee Nuclear Station. The Metallurgy and Lab Services Section/Nuclear Technical Services Division has overall responsibility for this inspection. This work is planned, implemented, documented and reported independently from this document.
- 1.1.3 Augmented (regulator required) examinations on certain systems or components shall be performed in accordance with other editions or addenda of ASME Section XI, as identified in the governing commitment.

## 1.2 Code Cases Applicable to the ASME Boiler and Pressure Code Section XI

The following Code Cases will be used for the Fourth Interval Inservice Inspection Program at Oconee Unit 3:

- |       |                   |   |
|-------|-------------------|---|
| 1.2.2 | Code Case N-460   | "Alternative Examination Coverage For Class 1 and Class 2 Welds". (This Code Case is approved for use under Regulatory Guide 1.147, Revision 13.)   |
| 1.2.9 | Code Case N-648-1 | Alternate Requirements for Inner Radius Examinations of Class 1 Reactor Vessel Nozzles, Section XI, Division 1. (This Code Case is approved for use under Regulatory Guide 1.147, Revision 13.) |

## 1.3 Applicable Duke Power Administrative Procedures

The following Duke Power procedures will be used to control preservice and inservice inspection activities and inservice inspection plans and reports:

<u>PROCEDURE NO.</u>	<u>TITLE</u>
NSD-300	"ASME Section XI Program"
NSD-701	"Records Management"
NSD-702	"Document Management"
NSD-800	"Software and Data Quality Assurance (SDQA) Program"
QA-502	"Digitization and Optical Storage of Records"
QA-513	"Preparation and Implementation of ASME Section XI Inservice Inspection Plans Including Requirements for Augmented and Elective Examinations"
QA-516	"Evaluation of ISI Indications"
QA-520	"Preparation and Distribution of Inservice Inspection Reports"
QAL-5	"Control Of Preservice And Inservice Inspection Activities"
SDQA-30177-NGO	"ISIDBMS" (Inservice Inspection Database Management System)

#### **1.4 License Renewal**

This plan is part of an aging management program credited for license renewal, as described in the ONS license renewal basis specification OSS-0274.00-00-0016. When making changes to this plan, refer to the ONS Updated Final Safety Analysis Report (UFSAR), Section 18.3.12.

## **2.0 System Boundaries Subject to Inspection**

The boundaries of Class 1, 2 and 3 non-exempt systems are shown on ISI NDE Boundary Drawings listed in Section 2 of the unit specific volumes. Unless otherwise noted, systems designated as ISI Class 1 are equivalent to ASME Class 1, ISI Class 2 are equivalent to ASME Class 2, and ISI Class 3 are equivalent to ASME Class 3.

### **2.1 Class 1 Components Exempted From Volumetric and Surface Examination**

- 2.1.1 Components that are connected to the reactor coolant system and part of the reactor coolant pressure boundary, and that are of such a size and shape so that upon postulated rupture the resulting flow of coolant from the reactor coolant system under normal plant operating conditions is within the capacity of makeup systems which are operable from on-site emergency power. Reference Section XI, Paragraph IWB-1220(a). (Also reference 10CFR50a (b)(2)(xi) in Section 1.0 of this document.)
- 2.1.2 Piping of NPS 1" and smaller, except for steam generator tubing. Reference Section XI, Paragraph IWB-1220(b) (1). (Also reference 10CFR50a (b)(2)(xi) in Section 1.0 of this document.)
- 2.1.3 Components and their connections in piping of NPS 1" and smaller. Reference Section XI, Paragraph IWB-1220(b) (2). (Also reference 10CFR50a (b)(2)(xi) in Section 1.0 of this document.)
- 2.1.4 Reactor vessel head connections and associated piping, NPS 2" and smaller, made inaccessible by control rod drive penetrations. Reference Section XI, Paragraph IWB-1220(c). (Also reference 10CFR50a (b)(2)(xi) in Section 1.0 of this document.)

### **2.2 Class 2 Components Within RHR, ECC, and CHR Exempted From Volumetric and Surface Examination**

- 2.2.1 For systems except high pressure safety injection: Vessels, piping, pumps, valves, and their connections in piping NPS 4" and smaller. Reference Section XI, Paragraphs IWC-1221(a) (1) and (2).
- 2.2.2 For high pressure safety injection systems: Vessels, piping, pumps, valves, and their connections in piping NPS 1<sup>1</sup>/<sub>2</sub>" and smaller in high pressure safety injection systems. Reference Section XI, Paragraphs IWC-1221(b) (1) and (2).
- 2.2.3 Vessels, piping, pumps, valves, other components and their component connections of any size in statically pressurized, passive (i.e., no pumps) safety injection systems. Reference Section XI, Paragraph IWC-1221(c).
- 2.2.4 Piping and other components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal plant operating conditions. Reference Section XI, Paragraph IWC-1221(d).

## **2.3 Class 2 Components Within Systems Other Than RHR, ECC, And CHR Exempted From Volumetric and Surface Examination**

- 2.3.1 For systems except auxiliary feedwater systems: vessels, piping, pumps, valves, and their connections in piping NPS 4" and smaller. Reference Section XI, Paragraphs IWC-1222(a) (1) and (2).
- 2.3.2 For auxiliary feedwater systems: vessels, piping, pumps, valves, and their connections in piping NPS 1 1/2" and smaller. Reference Section XI, Paragraphs IWC-1222(b) (1) and (2).
- 2.3.3 Vessels, piping, pumps, valves, other components, and component connections of any size in systems or portions of systems that operate (when the system function is required) at a pressure equal to or less than 275 psig and at a temperature equal to or less than 200 ° F. Reference Section XI, Paragraph IWC-1222(c).
- 2.3.4 Piping and other components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal plant operating conditions. Reference Section XI, Paragraph IWC-1222(d).

## **2.4 Class 2 Inaccessible Welds**

Welds or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe are exempted from examination requirements. Reference Section XI, Paragraph IWC-1223.

## **2.5 Class 3 Items Exempted From VT-1 Examination**

- 2.5.1 Vessels, piping, pumps, valves, and their connections in piping NPS 4" and smaller. Reference Section XI, Paragraphs IWD-1220(a) and (b).
- 2.5.2 Components that operate at a pressure of 275 psig or less and at a temperature of 200°F or less in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and emergency core cooling. Reference Section XI, Paragraph IWD-1220(c).
- 2.5.3 Welds or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe are exempted from examination requirements. Reference Section XI, Paragraph IWD-1220(d).

## 2.6 Class 1, 2, and 3 Supports Exempted From VT-3 Examination

Supports exempt from the examination requirements of IWF-2000 are those connected to piping and other items exempted from volumetric, surface, or VT-1 or VT-3 visual examination by IWB-1220, IWC-1220, and IWD-1220. In addition, portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe. Reference Section XI, Paragraph IWF-1230.

## 2.7 Examination Boundaries

Section 2 of the Unit specific volumes contain a listing of flow diagrams that are color-coded to identify the NDE examination required on each portion of the system. The codes used for NDE examinations are described below:

Red	Class 1 system, not exempted
Yellow	Class 2 system, not exempted
Green	Class 3 system, not exempted
Blue	System (or portions of systems) exempt from examination
Black	System (or portions of systems) that is not ASME Class 1, 2, or 3. This system is not subject to ASME Section XI Requirements.

Revisions to the plant system flow diagrams are reviewed for additions/changes to the ISI boundaries. These additions/changes are incorporated into the ISI NDE Boundary Drawings and the ISI Plan as necessary. These ISI NDE Boundary Drawings are stored electronically and can be found in the Nuclear Electronic Document Library (NEDL). The original marked-up ISI NDE Boundary Drawings are maintained in the General Office. Controlled copies will be issued as required by Document Management.

## 2.8 Inspection Interval and Inspection Periods

Reference Section 8.0 for a matrix of end of cycle vs. outage nomenclature.

### Fourth Inspection Interval

#### Oconee Unit 3 and Keowee Units 1 & 2

<u>Start Date</u>		<u>End Date</u>	
12/16/2004	12/16/2007	12/16/2011	12-16-2014
<u>1ST Period</u>		<u>2ND Period</u>	<u>3RD Period</u>
Outage 1 (EOC 22)		Outage 3 (EOC 24)	Outage 5 (EOC 26)
Outage 2 (EOC 23)		Outage 4 (EOC 25)	Outage 6 (EOC 27)



### **3.0 Inspection Methods and Procedures to be used for Inservice Inspection**

Inservice inspection of Oconee Unit 3 and Keowee Units 1 & 2 will be performed using procedures which comply with the requirements of the applicable codes referenced in Section 1.0 of this plan. Volumetric, surface, and visual methods of inspection will be used as required. Each inspection will be performed under the QA Program of the organization performing the inspection.

A specific examination procedure is referenced for each inspection method listed in Section 8.0 of this Plan. Procedures beginning with "NDE or "PDI" are found in the Duke Power Company NDE Procedure Manuals. Procedures beginning with "QAL" are found in the Nuclear Inspection Procedures Manual. Vendor inspection procedures that are to be used will be listed in section 3.7 of this plan as they become identified. Duke Power inspection procedures will also be listed in Section 3.7 of this plan.

#### **3.1 Volumetric Inspection**

Volumetric inspection will be performed by manual and/or automated ultrasonic methods, except in some cases where ultrasonic methods are not practical. Radiographic examinations will be used in these cases in lieu of ultrasonic examinations. Inspection of reactor vessel welds will be performed using an automated ultrasonic inspection device.

Steam generator tubing will be examined using eddy current inspection methods as outlined in the Oconee Technical Specifications. The Metallurgy and Lab Services Section/Nuclear Technical Services Division have overall responsibility for implementing and reporting any inspections pertaining to the Steam Generator Tubes. This work is planned, implemented, documented and reported independently from this document.

#### **3.2 Surface Inspection**

Surface inspection will be performed using either liquid penetrant or magnetic particle methods. The liquid penetrant method will be used for all surface inspections on austenitic steels and may also be used on ferritic steel. The magnetic particle method will only be used on ferritic steel.

#### **3.3 Visual Inspection**

Inservice visual inspections will be performed using direct methods where practical. Remote visual examinations may be used in some cases.

#### **3.4 Pressure Testing**

Inservice inspection pressure testing requirements will be addressed in the Duke Energy Corporation Inservice Inspection Pressure Test Plan. This work is planned, implemented, and documented independently from this document; however, this work is reported along with inspections items from this document.

### 3.5 Snubber Testing

The Inservice Testing and Inspection of Snubbers (IWF-5000) will be performed per Selected Licensee Commitments, Section 16.9.18. The site Mechanical/Civil Engineering Section will be responsible for all testing, inspecting, and reporting under this program. This work is planned, implemented, documented and reported independently from this document.

### 3.6 Containment Inspections

The Inservice Inspection of Containment as required by the ASME Section XI Code, Subsections IWE and IWL is the responsibility of the Materials, Piping and Seismic Section, Nuclear Technical Services Division. This work is planned, implemented, documented and reported independently from this document.

### 3.7 Inspection Procedures

The following procedures will be used for the inservice inspection of Oconee Unit 3:

<u>PROCEDURE NO.</u>	<u>TITLE</u>
NDE-12	General Radiography Procedure for Preservice and Inservice Inspection
NDE-25	Magnetic Particle Examination
NDE-35	Liquid Penetrant Examination
NDE-105	Radiography Procedure For The Examination Of Oconee Nuclear Station Thermal Sleeves
NDE-600	Ultrasonic Examination of Similar Metal Piping Welds in Wrought Ferritic and Austenitic Material
NDE-620	Ultrasonic Examination of Welds in Wrought Ferritic Pressure Vessels Greater than 2 Inches in Thickness
NDE-640	Straight Beam Ultrasonic Examination of Welds and Base Material in Pressure Vessels and Piping
NDE-660	Ultrasonic Examination of Reactor Pressure Vessel Closure Head Welds
NDE-680	Ultrasonic Examination of Nozzle Inner Radii in Ferritic Pressure Vessels
NDE-690	Ultrasonic Examination of the High Pressure Injection System Nozzle Inner Radius at Oconee Nuclear Station
NDE-820	Ultrasonic Examination of Welds in Ferritic Pressure Vessels Greater than 2 Inches in Thickness

**PROCEDURE NO.****TITLE**

NDE-900	Ultrasonic Examination of Reactor Coolant Pump Flywheels
NDE-940	Ultrasonic Thickness Measurement and Stud Location
NDE-970	Ultrasonic Examination Of Ferritic Pressure Vessel Welds Greater Than 7 ½ Inches In Thickness at Oconee Nuclear Station
NDE-995	Ultrasonic Examination of Small Diameter Piping Butt Welds and Base Material for Thermal Fatigue Damage
NDE-3630	Ultrasonic Examination of Welds in Pressure Vessels 2 Inches and Less in Thickness
NDE-3650	Ultrasonic Examination of Reactor Vessel Flange to Shell Welds
QAL-13	ISI Visual Examination, VT-1
QAL-14	ISI Visual Examination, VT-3
PDI-UT-1	PDI Generic Procedure for the Ultrasonic Examination of Ferritic Pipe Welds
PDI-UT-2	PDI Generic Procedure for the Ultrasonic Examination of Austenitic Pipe Welds
PDI-UT-4	PDI Generic Procedure for the Ultrasonic Examination of Studs and Bolts From the Bore
PDI-UT-5	Generic Procedure for Straight Beam Ultrasonic Examination of Bolts and Studs
PDI-UT-6	Generic Procedure for the Manual Ultrasonic Examination of Reactor Pressure Vessel Welds (Note: The following procedure may be used for examination of pressure vessels in lieu of procedure NDE-620. Use of this procedure will require that the UT inspector be qualified specifically to PDI-UT-6.)
PDI-UT-10	PDI Generic Procedure for the Ultrasonic Examination of Dissimilar Metal Piping Welds
PDI-ISI-254	Remote Inservice Examination of Reactor Vessel Shell Welds
PDI-ISI-254-NZ	Remote Inservice Examination of Reactor Vessel Nozzle to Shell Welds
PDI-ISI-254-CF-SE	Remote Inservice Examination of Core Flood Nozzle to Safe End Welds
PDI-ISI-254-SE	Remote Inservice Examination of Reactor Vessel Nozzle to Safe End, Nozzle to Pipe, and Safe End to Pipe Welds

**PROCEDURE NO.****TITLE**

WDI-STD-088

Underwater Remote Visual Examination of Reactor Vessel Internals

WDI-SSP-106

Remote Inservice Examination of Oconee Core Flood and Reactor Vessel Piping as an Alternate to Surface Exams

For Oconee Nuclear Station Unit 3 and Keowee Units 1 & 2, the latest revision of each procedure that has been approved by the Manager of QA Technical Services, or his designee will be used. These procedures (both Duke Power and vendor procedures) will have Duke Power approval prior to implementation.

#### 4.0 Description of Inservice Inspection Plan for ASME Class 1 Items

The inservice inspection of ASME Class 1 Items shall be performed in accordance with the requirements of Article IWB-2000 of Section XI. A description of examination listings and schedules are found in Section 8.0 of this Plan. Class 1 examinations were scheduled for the Fourth Inspection Interval in accordance with the following table from ASME Section XI Inspection Program B:

Table IWB-2412-1

Inspection Interval	Inspection Period, Calendar Years of Plant Service Within the Interval	Minimum Examinations Completed, %	Maximum Examinations Credited, %
4th	3	16	50
	7	50 <small>Note 1</small>	75
	10	100	100

**Note 1:** If the first period completion percentage for any examination category exceeds 34%, at least 16% of the required examinations shall be performed in the second period.

#### 4.1 Examination Categories and Requirements

The examination categories to be used are those listed in Table IWB-2500-1 of Section XI. Specific examinations will be identified by an Item Number similar to those listed in Table IWB-2500-1 of Section XI, plus an additional number to uniquely identify that examination. (Example: B01.011.001)

Class 1 Items to be inspected includes:

##### Category B-A

##### Pressure Retaining Welds In Reactor Vessel

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
B1.10	Shell Welds	
B1.11	Circumferential	
B1.12	Longitudinal	N/A for Oconee 3
B1.20	Head Welds	
B1.21	Circumferential	

**Category B-A (cont.)**

<b><u>IWB-2500-1</u></b> <b><u>Item No.</u></b>	<b><u>Component To Be Examined</u></b>	<b><u>Comments</u></b>
B1.22	Meridional	N/A for Oconee 3
B1.30	Shell-to-Flange Weld	
B1.40	Head-to-Flange Weld	
B1.50	Repair Welds	
B1.51	Beltline region	N/A for Oconee 3

**Category B-B      Pressure Retaining Welds In Vessels Other Than Reactor Vessels**

<b><u>IWB-2500-1</u></b> <b><u>Item No.</u></b>	<b><u>Component To Be Examined</u></b>	<b><u>Comments</u></b>
	<b><i>Pressurizer</i></b>	
B2.10	Shell-to-Head	
B2.11	Circumferential	
B2.12	Longitudinal	
B2.20	Head Welds	
B2.21	Circumferential	N/A for Oconee 3
B2.22	Meridional	N/A for Oconee 3
	<b><i>Steam Generators (Primary Side)</i></b>	
B2.30	Head Welds	
B2.31	Circumferential	
B2.32	Meridional	N/A for Oconee 3
B2.40	Tubesheet-to-Head Weld	

**Category B-B (cont.)**

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Heat Exchangers (Primary Side) - Head</i></b>	
B2.50	Head Welds	
B2.51	Circumferential	
B2.52	Meridional	N/A for Oconee 3
	<b><i>Heat Exchangers (Primary Side) - Shell</i></b>	
B2.60	Tubesheet-to-Head Welds	
B2.70	Longitudinal Welds	N/A for Oconee 3
B2.80	Tubesheet-to-Shell Welds	N/A for Oconee 3

**Category B-D      Full Penetration Welded Nozzles In Vessels - Inspection Program B**

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Reactor Vessel</i></b>	
B3.90	Nozzle-to-Vessel Welds	
B3.100	Nozzle Inside Radius Section	
	<b><i>Pressurizer</i></b>	
B3.110	Nozzle-to-Vessel Welds	
B3.120	Nozzle Inside Radius Section	Reference General Requirements Section 1.0
	<b><i>Steam Generators (Primary Side)</i></b>	
B3.130	Nozzle-to-Vessel Welds	
B3.140	Nozzle Inside Radius Section	Reference General Requirements Section 1.0

**Category B-D (cont.)**

<u>IWB-2500-1</u> <u>Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<i>Heat Exchangers (Primary Side)</i>	
B3.150	Nozzle-to-Vessel Welds	
B3.160	Nozzle Inside Radius Section	

**Category B-F      Pressure Retaining Dissimilar Metal Welds in Vessel Nozzles**

<u>IWB-2500-1</u> <u>Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<i>Reactor Vessel</i>	
B5.10	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	
B5.20	Less Than NPS 4 Nozzle-to-Safe End Butt Welds	N/A for Ocone 3
B5.30	Nozzle-to-Safe End Socket Welds	N/A for Ocone 3
	<i>Pressurizer</i>	
B5.40	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	
B5.50	Less Than NPS 4 Nozzle-to-Safe End Butt Welds	
B5.60	Nozzle-to-Safe End Socket Welds	N/A for Ocone 3
	<i>Steam Generator</i>	
B5.70	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	N/A for Ocone 3
B5.80	Less Than NPS 4 Nozzle-to-Safe End Butt Welds	N/A for Ocone 3
B5.90	Nozzle-to-Safe End Socket Welds	N/A for Ocone 3



**Category B-F (cont.)**

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
<b><i>Heat Exchangers</i></b>		
B5.100	NPS 4 or Larger Nozzle-to-Safe End Butt Welds	N/A for Oconee 3
B5.110	Less Than NPS 4 Nozzle-to-Safe End Butt Welds	N/A for Oconee 3
B5.120	Nozzle-to-Safe End Socket Welds	N/A for Oconee 3

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

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
<b><i>Reactor Vessel</i></b>		
B6.10	Closure Head Nuts	
B6.20	Closure Studs, in place	Closure studs are examined when removed, see B6.30
B6.30	Closure Studs, when removed	
B6.40	Threads in Flange	
B6.50	Closure Washers, Bushings	
<b><i>Pressurizer</i></b>		
B6.60	Bolts and Studs	
B6.70	Flange Surface, when connection disassembled	
B6.80	Nuts, Bushings, and Washers	
<b><i>Steam Generators</i></b>		
B6.90	Bolts and Studs	N/A for Oconee 3
B6.100	Flange Surface, when connection disassembled	N/A for Oconee 3
B6.110	Nuts, Bushings, and Washers	N/A for Oconee 3

**Category B-G-1 (cont.)**

<b><u>IWB-2500-1</u></b> <b><u>Item No.</u></b>	<b><u>Component To Be Examined</u></b>	<b><u>Comments</u></b>
<b><i>Heat Exchangers</i></b>		
B6.120	Bolts and Studs	N/A for Oconee 3
B6.130	Flange Surface, when connection disassembled	N/A for Oconee 3
B6.140	Nuts, Bushing, and Washers	N/A for Oconee 3
<b><i>Piping</i></b>		
B6.150	Bolts and Studs	N/A for Oconee 3
B6.160	Flange Surface, when connection disassembled	N/A for Oconee 3
B6.170	Nuts, Bushing, and Washers	N/A for Oconee 3
<b><i>Pumps</i></b>		
B6.180	Bolts and Studs	
B6.190	Flange Surface, when connection disassembled	
B6.200	Nuts, Bushings, and Washers	
<b><i>Valves</i></b>		
B6.210	Bolts and Studs	N/A for Oconee 3
B6.220	Flange Surface, when connection disassembled	N/A for Oconee 3
B6.230	Nuts, Bushings, and Washers	N/A for Oconee 3

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

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Reactor Vessel</i></b>	
B7.10	Bolts, Studs, and Nuts	N/A for Oconee 3
	<b><i>Pressurizer</i></b>	
B7.20	Bolts, Studs, and Nuts	
	<b><i>Steam Generators</i></b>	
B7.30	Bolts, Studs, and Nuts	
	<b><i>Heat Exchangers</i></b>	
B7.40	Bolts, Studs, and Nuts	N/A for Oconee 3
	<b><i>Piping</i></b>	
B7.50	Bolts, Studs, and Nuts	
	<b><i>Pumps</i></b>	
B7.60	Bolts, Studs, and Nuts	N/A for Oconee 3
	<b><i>Valves</i></b>	
B7.70	Bolts, Studs, and Nuts	
	<b>CRD Housing</b>	
B7.80	Bolts, Studs, and Nuts	Reference General Requirements Section 1.0

**Category B-J****Pressure Retaining Welds In Piping**

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
B9.10	<b>NPS 4 or Larger</b>	
B9.11	<b>Circumferential Welds</b>	
B9.20	<b>Less Than NPS 4</b>	
B9.21	<b>Circumferential Welds</b>	

**Category B-J (cont.)**

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
B9.30	Branch Pipe Connection Welds	
B9.31	NPS 4 or Larger	
B9.32	Less Than NPS 4	
B9.40	Socket Welds	

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

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<i>Pressure Vessels</i>	
B10.10	Welded Attachments	Reference General Requirements Section 1.0
	<i>Piping</i>	
B10.20	Welded Attachments	
	<i>Pumps</i>	
B10.30	Welded Attachments	N/A for Oconee 3
	<i>Valves</i>	
B10.40	Welded Attachments	N/A for Oconee 3

<b>Category</b>	<b>B-L-1</b>	<b>Pressure Retaining Welds In Pump Casings</b>
	<b>B-M-1</b>	<b>Pressure Retaining Welds In Valve Bodies</b>
	<b>B-L-2</b>	<b>Pump Casings</b>
	<b>B-M-2</b>	<b>Valve Bodies</b>

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<i>Pumps</i>	
B12.10	Pump Casing Welds (B-L-1)	
B12.20	Pump Casing (B-L-2)	

Category B-L-1, B-M-1, B-L-2, and B-M-2 (cont.)

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Valves</i></b>	
B12.30	Valves, Less Than NPS 4 Valve Body Welds (B-M-1)	
B12.40	Valves, NPS 4 or Larger Valve Body Welds (B-M-1)	N/A for Oconee 3
B12.50	Valve Body, Exceeding NPS 4 (B-M-2)	
Category	B-N-1 Interior Of Reactor Vessel	
	B-N-2 Welded Core Support Structures And Interior Attachments To Reactor Vessels	
	B-N-3 Removable Core Support Structures	

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Reactor Vessel</i></b>	
B13.10	Vessel Interior (B-N-1)	Each Inspection Period
	<b><i>Reactor Vessel (PWR)</i></b>	
B13.50	Interior Attachments Within Beltline Region (B-N-2)	
B13.60	Interior Attachments Beyond Beltline Region (B-N-2)	N/A for Oconee 3
B13.70	Core Support Structure (B-N-3)	

Category B-O Pressure Retaining Welds In Control Rod Housings

<u>IWB-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Reactor Vessel</i></b>	
B14.10	Welds in CRD Housing	

**Category B-P****All Pressure Retaining Components****IWB-2500-1**  
**Item No.****Component To Be Examined****Comments*****Reactor Vessel***

B15.10	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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***Pressurizer***

B15.20	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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***Steam Generators***

B15.30	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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***Heat Exchangers***

B15.40	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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***Piping***

B15.50	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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***Pumps***

B15.60	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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***Valves***

B15.70	Pressure Retaining Boundary	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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**Category B-Q****Steam Generator Tubing****IWB-2500-1**  
**Item No.****Component To Be Examined****Comments**

B16.10	Steam Generator Tubing in Straight Tube Design	Reference Requirements Section 3.1
B16.20	Steam Generator Tubing in U-Tube Design	N/A for Oconee 3

**CATEGORY F-A****Supports****IWF-2500-1**  
**Item No.****Component To Be Examined****Comments**

F1.10	Class 1 Piping Supports (Category A)
F1.11	Class 1 Piping Supports (Category B)
F1.12	Class 1 Piping Supports (Category C)
F1.40	Supports Other Than Piping Supports (Class 1)

## 4.2 Examination Category B-J Stress Weld Selection for Inservice Inspection

Class 1 Examination Category B-J welds that exceed the stress criteria given in Table IWB-2500-1 note (1)(b) are listed below:

### 4.2.1 Oconee 3

<u>Item Number</u>	<u>Weld Number</u>	<u>Piping Isometric</u>	<u>Flow Diagram</u>
B09.011.006	3-PIA1-4	ISI-OCN3-007	O-ISIN4-100A-3.1
B09.011.009	3-PIA2-4	ISI-OCN3-008	O-ISIN4-100A-3.1
B09.011.012	3-PIB1-4	ISI-OCN3-009	O-ISIN4-100A-3.1
B09.011.015	3-PIB2-4	ISI-OCN3-010	O-ISIN4-100A-3.1
B09.011.025	3-PSL-1	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.026	3-PSL-2	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.027	3-PSL-3	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.028	3-PSL-4	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.029	3-PSL-5	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.030	3-PSL-6	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.031	3-PSL-7	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.032	3-PSL-8	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.033	3-PSL-9	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.034	3-PSP-3	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.011.056	3-PSL-10	ISI-OCN3-015	O-ISIN4-100A-3.2
B09.011.058	3-PSP-2	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.006	3RC-259-5	3RC-259	O-ISIN4-100A-3.2
B09.021.008	3-PSP-11	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.009	3-PSP-12	ISI-OCN3-016	O-ISIN4-100A-3.2



<u>Item Number</u>	<u>Weld Number</u>	<u>Piping Isometric</u>	<u>Flow Diagram</u>
B09.021.010	3-PSP-14	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.013	3HP-242-46	3HP-242	O-ISIN4-101A-3.4
B09.021.014	3-PSP-4	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.015	3-PSP-5	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.016	3-PSP-6	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.017	3-PSP-13	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.018	3-PSP-8	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.032	3RC-212-45	3RC-212	O-ISIN4-101A-3.4
B09.021.033	3RC-212-52	3RC-212	O-ISIN4-100A-3.1
B09.021.035	3RC-213-26	3RC-213	O-ISIN4-100A-3.1
B09.021.044	3RC-211-47	3RC-211	O-ISIN4-101A-3.4
B09.021.046	3RC-211-54	3RC-211	O-ISIN4-100A-3.1
B09.021.048	3RC-210-31	3RC-210	O-ISIN4-101A-3.4
B09.021.049	3RC-210-24A	3RC-210	O-ISIN4-100A-3.1
B09.021.050	3HP-241-43	3HP-241	O-ISIN4-101A-3.4
B09.021.054	3HP-243-23	3HP-243	O-ISIN4-101A-3.4
B09.021.055	3RC-210-32	3RC-210	O-ISIN4-101A-3.4
B09.021.056	3RC-212-46	3RC-212	O-ISIN4-101A-3.4
B09.021.057	3RC-213-27	3RC-213	O-ISIN4-101A-3.4
B09.021.058	3RC-213-28	3RC-213	O-ISIN4-101A-3.4
B09.021.060	3HP-240-32	3HP-240	O-ISIN4-101A-3.4
B09.021.062	3-PSP-9	ISI-OCN3-016	O-ISIN4-100A-3.2
B09.021.063	3RC-259-6	3RC-259	O-ISIN4-100A-3.2
B09.031.001	3-PHB-16	ISI-OCN3-006	O-ISIN4-100A-3.1

<u>Item Number</u>	<u>Weld Number</u>	<u>Piping Isometric</u>	<u>Flow Diagram</u>
B09.032.004	3-PDA1-10	ISI-OCN3-011	O-ISIN4-100A-3.1
B09.032.005	3-PDA2-10	ISI-OCN3-012	O-ISIN4-100A-3.1
B09.032.006	3-PDB1-10	ISI-OCN3-013	O-ISIN4-100A-3.1
B09.032.007	3-PDB1-12	ISI-OCN3-013	O-ISIN4-100A-3.1
B09.032.008	3-PDB2-10	ISI-OCN3-014	O-ISIN4-100A-3.1

## 5.0 Description of Inservice Inspection Plan for ASME Class 2 Items

The inservice inspection of ASME Class 2 Items shall be performed in accordance with the requirements of Article IWC-2000 of Section XI. A description of examination listings and schedules are found in Section 8.0 of this Plan. Class 2 examinations were scheduled for the Fourth Inspection Interval in accordance with the following table from ASME Section XI Inspection Program B:

Tables IWC-2412-1

Inspection Interval	Inspection Period, Calendar Years of Plant Service Within the Interval	Minimum Examinations Completed, %	Maximum Examinations Credited, %
4th	3	16	50
	7	50 Note 1	75
	10	100	100

**Note 1:** If the first period completion percentage for any examination category exceeds 34%, at least 16% of the required examinations shall be performed in the second period.

## 5.1 Examination Categories and Requirements

The examination categories to be used are those listed in Table IWC-2500-1 of Section XI. Specific examinations will be identified by an Item Number, similar to those listed in Table IWC-2500-1 of Section XI, plus an additional number to uniquely identify that examination. (Example C01.010.001)

Class 2 Items to be inspected includes:

### Category C-A Pressure Retaining Welds In Pressure Vessels

<u>IWC-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
C1.10	Shell Circumferential Welds	
C1.20	Head Circumferential Welds	
C1.30	Tubesheet-to-Shell Weld	

**Category C-B      Pressure Retaining Nozzle Welds In Vessels**

<b>IWC-2500-1 <u>Item No.</u></b>	<b><u>Component To Be Examined</u></b>	<b><u>Comments</u></b>
C2.10	<b>Nozzles in Vessels <math>\leq 1/2</math> in. Nominal Thickness</b>	
C2.11	Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Weld	N/A for Oconee 3
C2.20	<b>Nozzles Without Reinforcing Plate in Vessels <math>&gt; 1/2</math> in. Nominal Thickness</b>	
C2.21	Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Weld	
C2.22	Nozzle Inside Radius Section	
C2.30	<b>Nozzles With Reinforcing Plate in Vessels <math>&gt; 1/2</math> in. Nominal Thickness</b>	
C2.31	Reinforcing Plate Welds to Nozzle and Vessel	
C2.32	Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Welds When Inside of Vessel is Accessible	N/A for Oconee 3
C2.33	Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Welds When Inside of Vessel is Inaccessible	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan

**Category C-C      Welded Attachments For Vessels, Piping, Pumps, And Valves**

<b>IWC-2500-1 <u>Item No.</u></b>	<b><u>Component To Be Examined</u></b>	<b><u>Comments</u></b>
	<b><i>Pressure Vessels</i></b>	
C3.10	Welded Attachments	
	<b><i>Piping</i></b>	
C3.20	Welded Attachments	
	<b><i>Pumps</i></b>	
C3.30	Welded Attachments	

**Category C-C (cont.)****Valves**

C3.40	Welded Attachments	N/A for Oconee 3
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**Category C-D****Pressure Retaining Bolting Greater Than 2 in. In Diameter****IWC-2500-1  
Item No.****Component To Be Examined****Comments*****Pressure Vessels***

C4.10	Bolts and Studs	N/A for Oconee 3
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***Piping***

C4.20	Bolts and Studs	N/A for Oconee 3
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***Pumps***

C4.30	Bolts and Studs	
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***Valves***

C4.40	Bolts and Studs	
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**Category C-F-1****Pressure Retaining Welds In Austenitic Stainless Steel Or High Alloy Piping****IWC-2500-1  
Item No.****Component To Be Examined****Comments**

C5.10	Piping Welds $\geq 3/8$ in. Nominal Wall Thickness for Piping > NPS 4	
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C5.11	Circumferential Weld	
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C5.20	Piping Welds $> 1/5$ in. Nominal Wall Thickness for Piping $\geq$ NPS 2 and $\leq$ NPS 4	
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C5.21	Circumferential Weld	
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C5.30	Socket Welds	
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**Category C-F-1 (cont.)**

- C5.40 Pipe Branch Connections of Branch Piping  $\geq$  NPS 2
- C5.41 Circumferential Weld

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

<u>IWC-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
C5.50	Piping Welds $\geq 3/8$ in. Nominal Wall Thickness for Piping $>$ NPS 4	
C5.51	Circumferential Weld	
C5.60	Piping Welds $> 1/5$ in. Nominal Wall Thickness for Piping $\geq$ NPS 2 and $\leq$ NPS 4	
C5.61	Circumferential Weld	N/A for Oconee 3
C5.70	Socket Welds	
C5.80	Pipe Branch Connections of Branch Piping $\geq$ NPS 2	
C5.81	Circumferential Weld	

**Category C-G Pressure Retaining Welds In Pumps And Valves**

<u>IWC-2500-1 Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
	<b><i>Pumps</i></b>	
C6.10	Pump Casing Welds	N/A for Oconee 3
	<b><i>Valves</i></b>	
C6.20	Valve Body Welds	N/A for Oconee 3

**Category C-H****All Pressure Retaining Components****IWC-2500-1**  
**Item No.****Component To Be Examined****Comments**

C7.10

Pressure retaining components

Reference Duke Energy  
Corporation Inservice Inspection  
Pressure Test Plan**CATEGORY F-A****SUPPORTS****IWF-2500-1**  
**Item No.****Component To Be Examined****Comments**

F1.20

Class 2 Piping Supports (Category A)

F1.21

Class 2 Piping Supports (Category B)

F1.22

Class 2 Piping Supports (Category C)

F1.40

Supports Other Than Piping Supports  
(Class 2)

## 6.0 Description of Inservice Inspection Plan for ASME Class 3 Items

The inservice inspection of ASME Class 3 Items shall be performed in accordance with the requirements of Article IWD-2000 of Section XI. A description of examination listings and schedules are found in Section 8.0 of this Plan. Class 3 examinations were scheduled for the Fourth Inspection Interval in accordance with the following table from ASME Section XI Inspection Program B:

Tables IWD-2412-1

Inspection Interval	Inspection Period, Calendar Years of Plant Service Within the Interval	Minimum Examinations Completed, %	Maximum Examinations Credited, % [Note 1]
4th	3	16	50
	7	50 Note 1	75
	10	100	100

**Note 1:** If the first period completion percentage for any examination category exceeds 34%, at least 16% of the required examinations shall be performed in the second period.

## 6.1 Examination Categories and Requirements

The examination categories to be used are those listed in Table IWD-2500-1 of Section XI. Specific examinations will be identified by an Item Number, similar to those listed in Table IWD-2500-1 of Section XI, plus an additional number to uniquely identify that examination; example, (D01.010.001).

Class 3 Items to be inspected includes:

### Category D-A Welded Attachments for Vessels, Piping, Pumps, and Valves

<u>IWD-2500-1 Item No.</u>	<u>Component to be Examined</u>	<u>Comments</u>
	<b>Pressure Vessels</b>	
D1.10	Welded Attachments	
	<b>Piping</b>	
D1.20	Welded Attachments	
	<b>Pumps</b>	
D1.30	Welded Attachments	N/A for Oconee 3



**Category D-A (cont.)**

<u>IWD-2500-1</u> <u>Item No.</u>	<u>Component to be Examined</u>	<u>Comments</u>
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**Valves**

D1.40	Welded Attachments	N/A for Oconee 3
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**Category D-B      All Pressure Retaining Components**

<u>IWD-2500-1</u> <u>Item No.</u>	<u>Component To Be Examined</u>	<u>Comments</u>
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D2.10	Pressure retaining components	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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D2.20	Pressure retaining components	Reference Duke Energy Corporation Inservice Inspection Pressure Test Plan
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**Category F-A      Supports**

<u>IWF-2500-1</u> <u>Item No.</u>	<u>Component to be Examined</u>	<u>Comments</u>
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F1.30	Class 3 Piping Supports (Category A)	
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F1.31	Class 3 Piping Supports (Category B)	
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F1.32	Class 3 Piping Supports (Category C)	
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F1.40	Supports Other than Piping Supports (Class 3)	
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## 7.0 Description of Augmented and Elective Inservice Inspection Plan

Augmented inservice inspections (regulator required) shall be performed as required in Section 1.0 of this Plan. Elective inservice inspections are performed for Duke Power Company (owner) defined reasons. A description of examination listings and schedules are found in Section 8.0 of this Plan.

### Note:

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

## 7.1 Augmented Examination Categories and Requirements

Items requiring augmented inservice inspection are described in the following paragraphs. Each inspection will be assigned a unique Item Number.

### 7.1.1 Reactor Coolant Pump Flywheels (Item Number Series G01.001)

At approximately three-year intervals, the bore and keyway of each reactor coolant pump flywheel shall be subjected to an in place, volumetric examination. Whenever maintenance or repair activities require flywheel removal, a surface examination of exposed surfaces and a complete volumetric examination shall be performed, if the interval measured from the previous such inspection is greater than 6 <sup>2</sup>/<sub>3</sub> years. Results of the examination will be evaluated by the original acceptance criteria and compared with the original examination data to ensure the absence of unacceptable defects. Reference Oconee Improved Technical Specification 5.5.8.

### 7.1.2 High Pressure Injection (HPI) Nozzle Safe End Examinations (Item Number Series G02.001)

Volumetric examinations shall be performed on all HPI Safe Ends as a result of NRC Generic Letter 85-20, Generic Issue 69. These items shall be scheduled for every other outage for the duration of the plant's operation. This schedule cannot be changed. The specific areas to be examined are as described below and are assigned a unique item number:

Ultrasonic examination on the Nozzle Inside Radius (knuckle area). Item Numbers are as follows:

Oconee Unit 3
G02.001.005A for 3A1
G02.001.005B for 3A2
G02.001.005C for 3B1
G02.001.005D for 3B2

Ultrasonic examination on the Nozzle to Safe End Weld. Item Numbers are as follows:

Oconee Unit 3
G02.001.006A for 3A1
G02.001.006B for 3A2
G02.001.006C for 3B1
G02.001.006D for 3B2

Ultrasonic examination on the Safe End Base Metal (from the Nozzle to Safe End Weld to the Safe End to Pipe Weld.) Item Numbers are as follows:

Oconee Unit 3
G02.001.007A for 3A1
G02.001.007B for 3A2
G02.001.007C for 3B1
G02.001.007D for 3B2

Ultrasonic examination on the Safe End to Pipe Weld and adjacent piping base metal out to the block valve weld. Item Numbers are as follows:

Oconee Unit 3
G02.001.008A for 3A1
G02.001.008B for 3A2
G02.001.008C for 3B1
G02.001.008D for 3B2

Ultrasonic examination on the Pipe to Pipe circumferential butt weld between the Safe-End to Pipe Weld and the Block Valve Weld for 3B1. Item Number is as follows:

<u>Oconee Unit 3</u>
G02.001.009B for 3B1

Ultrasonic examination on the Pipe Weld to Block Valve. Item Numbers are as follows:

<u>Oconee Unit 3</u>
G02.001.010A for 3A1
G02.001.010B for 3A2
G02.001.010C for 3B1
G02.001.010D for 3B2

Radiographic examination shall be performed between the Nozzle to Safe End and Safe End to Pipe Weld in the Thermal Sleeve expansion area. Item Numbers are as follows:

<u>Oconee Unit 3</u>
G02.001.011A for 3A1
G02.001.011B for 3A2
G02.001.011C for 3B1
G02.001.011D for 3B2

The inspection techniques, areas of interest, and acceptance criteria are defined in the applicable inspection procedures for these items. The inspection procedure numbers are referenced with the items to be inspected in the outage specific portion of the ISI Plan.

### 7.1.3 Pressurizer Surge Line Examinations (Item Number Series G03.001)

The surface of the drain nozzle weld shall be examined by the liquid penetrant method. The one inch diameter nozzle welds exceed the stress criteria given in Table IWB-2500-1. Also, volumetrically examine the two most highly stressed surge line elbows. Examine the entire circumference of the elbow at the midpoint of the elbow. The inspection band width around the circumference is 3". These examinations shall be performed once per interval for the duration of the plant's operation. These examinations are required by USNRC Bulletin 88-11.

### 7.1.4 Thermal Stress Piping Examinations (Item Number Series G04.001)

Ultrasonic examinations (UT) shall be performed on the weld and base material. The UT shall be performed once each inspection period (i.e., three inspections per ten year interval). These examinations shall be continued for the duration of the plant's operation. These examinations are required by USNRC Bulletin 88-08.

### 7.1.5 Augmented Inservice Inspection of Reactor Pressure Vessel Head (RPV) Penetration Nozzle by Ultrasonic Examination (Item Number Series G11.001.001)

NRC Order EA-03-009 requires ultrasonic testing of each RPV head penetration nozzle. The area to be examined includes the nozzle base material from two inches above the J-groove weld and continues to the bottom of the nozzle. There should be an assessment by ultrasonic testing to determine if leakage has occurred into (or a leak path exist in) the interference fit zone. For additional information, contact J.M. Shuping of the Metallurgy and Lab Services Section, Nuclear Technical Services Division.

The following table is the examination schedule for the ultrasonic examination for Unit 3 at Oconee Nuclear Station:

UT Examination	Scheduled Outage for Oconee Unit 3
1 <sup>st</sup> Examination	EOC 24 (4 <sup>th</sup> interval)
2 <sup>nd</sup> Examination	EOC 27 (4 <sup>th</sup> interval)
3 <sup>rd</sup> Examination	EOC 29 (5 <sup>th</sup> interval)
4 <sup>th</sup> Examination	EOC 30 (5 <sup>th</sup> interval)
5 <sup>th</sup> Examination	EOC 31 (5 <sup>th</sup> interval)

This schedule is not to be changed unless authorized by personnel from the Metallurgy and Lab Services Section.

**7.1.6 Augmented Inservice Inspection for the Bare Metal Visual Examination of the Reactor Pressure Vessel Head Surface (Item Number Series G11.001.002)**

NRC Order EA-03-009 requires bare metal visual examination of 100% of the reactor pressure vessel head surface (including 360 degree's around each RPV head penetration nozzle). For additional information, contact J.M. Shuping from the Metallurgy and Lab Services Section, Nuclear Technical Services Division.

The following table is the examination schedule for the Bare Metal Visual examination on the RV Head Surface for all three units at Oconee Nuclear Station:

Bare Metal Visual Examinations	Scheduled Outage for Oconee Unit 3
1 <sup>st</sup> Examination	EOC 23 (4 <sup>th</sup> interval)
2 <sup>nd</sup> Examination	EOC 26 (4 <sup>th</sup> interval)
3 <sup>rd</sup> Examination	EOC 28 (5 <sup>th</sup> interval)
4 <sup>th</sup> Examination	EOC 29 (5 <sup>th</sup> interval)
5 <sup>th</sup> Examination	EOC 30 (5 <sup>th</sup> interval)

This schedule is not to be changed unless authorized by personnel from the Metallurgy and Lab Services Section.

**7.2 Elective Examination Categories and Requirements**

Items requiring augmented inservice inspection are described in the following paragraphs. Each inspection will be assigned a unique Item Number.

**7.2.1 Pressurizer Sensing/Sampling Nozzle Safe Ends (Item Number Series H01.001)**

The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End welds shall be examined by the liquid penetrant method. These examinations are being performed due to cracking problems on the dissimilar metal safe ends at Palo Verde and Palisades nuclear stations. These elective examinations will continue to be performed once per interval until such time that Engineering provides directions on when to remove them from the Augmented Section of the ISI Plan.

**7.2.2 Class 1 RTE Mounting Bosses (Item Number Series H02.001)**

A surface examination shall be performed once during the fourth interval on the branch connection dissimilar metal weld that attaches each of ten (10) RTE mounting bosses to the reactor coolant system loop piping. This elective examination will be performed at the direction of the Materials, Piping and Seismic Section, Nuclear Technical Services Division.

**7.2.3 Main Feedwater Piping in the East & West Penetration Rooms (Item Number Series H03.001)**

Main Feedwater piping welds in the east and west penetration rooms designated in QA-513J form dated 10-24-2003(Tracking Number ER-ONS-04-03) require a UT examination performed on them once per interval to ensure the weld integrity and help prevent the possibility of pipe rupture on this system for this area of the plant.

#### 7.2.4

##### Main Feedwater and Main Steam Piping Supports and Attachment Welds (Item Number Series H04.001)

Main Feedwater and Main Steam piping supports designated in QA-513J form dated 7-15-2004 (Tracking Number ER-ONS-04-05) require a VT-3 visual examination performed on them once per interval and any of these piping supports with attachment welds require a surface examination (MT or PT) performed on the attachment weld once per interval. These inspections are to help prevent the possibility of pipe rupture on these systems for this area of the plant.

## 8.0 Description of Examination Listings

All ASME Class 1, 2, and 3 systems and components have been reviewed to determine the inservice examination requirements for Oconee Unit 3 Examination Listing and Schedules referenced by this section were written in accordance with the criteria found in Sections 3.0, 4.0, 5.0, 6.0 and 7.0 of this Plan.

For administrative purposes, the printouts identifying NDE examinations to be performed during each Refueling Outage that accompany this ISI Plan will reflect the refueling outages as shown below. These numbers will correlate back to the End of Cycles Number for Unit 3.

### Unit 3

Outage No.	1	2	3	4	5	6
End of Cycle No.	22	23	24	25	26	27

## 8.1 Examination Information

The following information is listed for each examination where applicable:

### 8.1.1 Item Number

The Item Number for each examination is composed of three sections. The first two sections of the item number for ASME Class 1, Class 2, and Class 3 items are similar to Item numbers assigned in Tables IWB-2500-1, IWC-2500-1 and IWD-2500-1 of Section XI. Example B09.011.001

Item Numbers for Class 1, 2, and 3 supports (IWF-2500-1) are identified as follows:

#### Class 1

F01.010 = Category A (rods in one direction only)

F01.011 = Category B (multi-directional hangers)

F01.012 = Category C (thermal movement, i.e. springs, snubbers and constant supports)



## Class 2

- F01.020 = Category A (rods in one direction only)
- F01.021 = Category B (multi-directional hangers)
- F01.022 = Category C (thermal movement, i.e. springs, snubbers and constant supports)

## Class 3

- F01.030 = Category A (rods in one direction only)
- F01.031 = Category B (multi-directional hangers)
- F01.032 = Category C (thermal movement, i.e. springs, snubbers and constant supports)

The last section of the Item Number is made up by a three or four character sequence to uniquely identify that inspection. Example F01.020.001.

### 8.1.2 ID Number

The ID Number is selected so that, by using the specified reference drawing(s) and any applicable comments, the area to be examined can be accurately identified. Several different weld identification systems were used by various equipment vendors. A consistent system of weld or component identification has been developed and is described below:

- 8.1.2.1 The first character of each ID Number indicates the Unit to which the examination applies.
- 8.1.2.2 The Unit Number is followed by two or three letters to indicate the component or system to be examined.

The abbreviations used are:

RPV	Reactor Pressure Vessel
PZR	Pressurizer
SGA	Steam Generator A
SGB	Steam Generator B
RCP	Reactor Coolant Pump
PHA	Reactor Coolant Piping Hot Leg to SGA

PHB	Reactor Coolant Piping Hot Leg to SGB
PIA1	Reactor Coolant Suction Piping to RCP A1
PIA2	Reactor Coolant Suction Piping to RCP A2
PIB1	Reactor Coolant Suction Piping to RCP B1
PIB2	Reactor Coolant Suction Piping to RCP B2
PDA1	Reactor Coolant Discharge Piping from RCP A1
PDA2	Reactor Coolant Discharge Piping from RCP A2
PDB1	Reactor Coolant Discharge Piping from RCP B1
PDB2	Reactor Coolant Discharge Piping from RCP B2
PSL	Pressurizer Surge Line Piping
PSP	Pressurizer Spray Piping
DT	Decay Tank
DHRC	Decay Heat Removal Cooler
LDCA	Letdown Cooler A
LDCB	Letdown Cooler B
BWST	Borated Water Storage Tank
LPCA	Low Pressure Injection Cooler A
LPCB	Low Pressure Injection Cooler B
SSF	Stand-by Shutdown Facility Make-Up Pump
EFDW-MD-PU	Emergency Feedwater Motor Driven Pump
EFDW-PT	Emergency Feedwater Pump Turbine
EFDW-TD-PU	Emergency Feedwater Turbine Driven Pump
LS	Letdown Storage
JWHX	Jacket Water Heat Exchanger
RB-CC	Reactor Building Cooling Coils
HPI	High Pressure Injection

LPI	Low Pressure Injection
CS	Coolant Storage Quench Tank
ESVP	Essential Siphon Vacuum Pump
LO	Lube Oil
MCD	Main Condenser
UST	Upper Surge Tank
RBS-PU	Reactor Building Spray Pump
RCSR	Reactor Coolant Seal Return
STR	Strainer
SF	Spent Fuel
01A, MS, SD	Main Steam
03, FDW	Feedwater Pumps Discharge
03A	Emergency Feedwater, Emergency Pump Discharge
07A	Condensate , Low Pressure
08	Vents and Exhaust
13	Condenser Circulating Water (CCW)
14	Low Pressure, High Pressure Service Water
14B, LPSW, LPS	Low Pressure Service Water System
20B-21	Penetration, Room Vent, and Reactor Bldg. Purge
50, RC	Reactor Coolant System
51, HP	High Pressure Injection
51A, HP	HP Injection and Let Down
53A, LP	LP Injection; Core Flood, and Decay Heat Removal
53B, LP	LP Injection; and Decay Heat Removal

54A	Reactor Building Spray Pumps; Suction and Discharge
55, CC	Component Cooling; Closed System
56, SF	Spent Fuel Cooling
57	Vents Reactor Bldg. Components
59	Drains Reactor Bldg. Components

8.1.2.3 The remainder of the ID Number will indicate the exact weld or component to be examined, as shown on the reference drawings. Additional information will be included in the comments space when necessary to positively identify the area to be examined.

#### 8.1.3 Drawing Numbers

At least one Duke Drawing Number is listed for each examination, if available. Drawing numbers beginning with "OM" are vendor's component drawings (i.e., OM-201-597). Drawing numbers beginning with "OFD", and "KFD" followed by a four digit number are system flow diagrams (i.e., O-ISIN4-100A-2.1). Drawing numbers beginning with "O-ISIN4" are ISI boundary drawings (i.e., O-ISIN4-100A-2.1).

#### 8.1.4 Location (Optional)

Location of Item: building, degree, elevation, axis, etc.

#### 8.1.5 Inspection Required / Configuration (Pipe to Elbow, Valve to Pipe, Flange to Tee, etc.)

The following abbreviations are used to describe the type of inspection required for each item:

EVT-1 Enhanced VT-1 Inspection (ISI Visual Inspection)

PT Liquid Penetrant Inspection

MT Magnetic Particle Inspection

RT Radiographic Inspection

UT Ultrasonic Inspection

VT-1 ISI Visual Inspection

VT-3 ISI Visual Inspection (General Condition of Components and Supports)

#### 8.1.6 Procedure

The procedures to be used for the examinations were selected by the NDE Level III, for the inspection methods discussed in Section 3 of this plan. The designation "TBD" (to be determined) is used to indicate cases where the procedure is in the process of being written.

#### 8.1.7 Material Type/Grade

The following abbreviations are used to indicate the type of material to be examined:

CS Carbon Steel

SS Stainless Steel

IN Inconel

#### 8.1.8 Diameter

The nominal pipe size (NPS) is listed for all valves and piping welds up to 24-inch NPS. The nominal inside diameter is listed for all vendor supplied piping larger than 24-in NPS. The actual outside diameter is listed for all other piping welds.

The nominal outside diameter is listed for examinations of bolts and studs.

#### 8.1.9 Thickness

The dimension listed for component or piping welds is the nominal thickness at the weld.

The overall length of bolts or studs is listed in this category when applicable.

The dimension listed for support attachment welds is the thickness of the attachment base material.

#### 8.1.10 Calibration Block

The calibration block(s) to be used for the UT examinations were selected by the NDE Level III, from the calibration block listing shown in Section 10 of this plan. The designation "TBD" is used to indicate cases where the calibration block is still being designed and / or fabricated.

#### 8.1.11 Comments

Additional information about the specified examination will be included here when needed.

## **8.2 Examination Listings**

The detailed examination listing and schedule are found in the Unit 3 volume of this plan.

## 9.0 Requests for Relief from ASME Code Requirements

Each request for relief from a requirement of the ASME Code specified in Section 1.0 of this Plan will be submitted to the Nuclear Regulatory Commission for approval.

The following is a listing of the Requests for Relief submitted for use:

Serial Number	Description	Units Affected	Date RFR Submitted	Date SER Approved	Comments
03-006	Request for Alternative to IWF-5000 OM -1987, Part 4, snubber examinations.	1,2 & 3	11/5/2003		
Pending	Reactor Vessel Core Flood Nozzle to Safe-End Weld Examination Item B05.010. (Automated UT from ID in Lieu of OD surface exams)	1,2 & 3	Pending		
Pending	Reactor Vessel Inlet Nozzle to Pipe Welds and Outlet Nozzle to Pipe Welds Examinations Item B09.011. (Automated UT from ID in Lieu of OD surface exams)	1,2 & 3	Pending		
Pending	Request for Alternative sizing techniques for UT of Reactor Vessel Welds	1,2 & 3	Pending		
Pending	Request for Alternative to the requirements of paragraph IWA-2300, ASME Section XI, 1995 Edition through the 1996 Addenda, Appendix VIII, Supplement 10. (procedure, personnel and equipment qualifications)	1,2 & 3	Pending		

Serial Number	Description	Units Affected	Date RFR Submitted	Date SER Approved	Comments
Pending	Request for Alternative to the requirements of ASME Section XI, Appendix VIII, Table VIII-3110-1, Component Qualification Supplements, Supplement 2 and Supplement 3, 1995 Edition through the 1996 Addenda. Procedure, personnel and equipment qualifications for category B-J piping welds from the inside surface of pressurized water reactors.	1,2 & 3	Pending		
Pending	Letdown Cooler Nozzles Item B03.160. (Inside Radius Section)	1,2 & 3	Pending		



## **10.0 Calibration Standards**

### **10.1 Ultrasonic Calibration Standards**

- 10.1.1 Calibration standards are prepared for each UT inspection listed in the detailed inspection listings (Volume Unit 2) of this plan. All calibration standards are designed in accordance with the requirements of ASME Section XI.
- 10.1.2 Calibration standards for UT inspection shall be selected per the Calibration Block Listing. The number of the calibration standard used shall be recorded on the inspection data.
- 10.1.3 Procedure NDE-600 is written to meet the requirements of Appendix VIII and does not require the use of a calibration block. In cases where NDE-600 is specified for use, the calibration block field will be empty. NDE-600 is for the examination of similar metal piping welds e.g., stainless to stainless pipe welds and carbon to carbon pipe welds.

### **10.2 Eddy Current Calibration Standards**

Eddy Current calibration standards are maintained by the Metallurgy and Lab Services Section/Nuclear Technical Services Division. Eddy Current Examinations for Steam Generator tubing are scheduled and performed per the Oconee Improved Technical Specifications.

### **10.3 Calibration Standard Description**

The Oconee Calibration Block Listing found in this section contains information concerning each calibration standard to be used for the inservice inspection of Oconee Unit 3.

Code Year 1998

Report order: Block no.  
Plant(s): ON3DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System  
Calibration Block ListingRun E  
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BLOCK NO.	TYPE	DESCRIPTION	CODE REQ	MATERIAL TYPE/GRADE	DIAM SIZE	THICKNESS (LENGTH)	COMMENTS
40338	PLATE	36.5" x 6" x 7" SA 515 GR.70	98/A00	CS	0.000	7.000	SS Clad
40350	PLATE	11.5" x 6" x 3" SA 516 GR.70	98/A00	CS	0.000	3.000	SS Clad
40354	PIPE	10" SCH. 160 SA 376 TYPE 304H	98/A00	CS	10.750	1.125	
40359	STUD	2.253" BOLTING SEAL GLAND STUD	98/A00	CS	2.253	11.725	REACTOR COOLANT PUMP SEAL GLAND BOLTING 2.253 x 11.725. HT # 817589 Material = ASTM 193 GR. B6. (ferritic)
40385	PLATE	3" X 6" X .75" SA 240 TYPE 304	98/A00	SS	0.000	0.750	Heat# 818934
40387	PLATE	6" x 7" x 28" SA508 CL.2	98/A00	CS	0.000	7.000	Heat # 158025C-1 SS Clad
40393	URSULA	9" x 6" x 36" SA 533 GR. B	98/A00	CS	0.000	9.000	SS Clad
40394	PLATE	5" x 6" x 21" SA 515 GR.70	98/A00	CS	0.000	5.000	SS Clad
40397	PLATE	3" x 6" x 12" SA 240 TYPE 316	98/A00	CS	0.000	3.000	Heat # 28316
40399	PIPE	10" SCH. 140 SA 376 TYPE 316	98/A00	SS	10.780	1.000	
40410	PLATE	2.99"x 6.04"x 18.08" SA515	98/A00	CS	0.000	2.990	SS Clad
40411	PIPE	SA 182 TYPE 316L	98/A00	SS	8.750	0.875	Heat# 82253
40414	PIPE	12" X 1.50" SA 105	98/A00	CS	12.000	1.500	Heat# T1807

Code Year 1998

Report order: Block no.  
Plant(s): ON3

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System  
Calibration Block Listing

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BLOCK NO.	TYPE	DESCRIPTION	CODE REQ	MATERIAL TYPE/GRADE	DIAM SIZE	THICKNESS (LENGTH)	COMMENTS
40416	PIPE	SA 479 TYPE 316	98/A00	SS	3.500	0.750	Heat# 1G3875
40417	STUD	14.131" x 2.230" SA 193 ID B16	98/A00	CS	2.230	14.131	
40420	STUD	63.25" x 6.5" SA 540 GR. B23	98/A00	CS	6.500	63.250	Reactor Vessel Stud Heat# 159628
40422	STUD	12.028" x 2.574" SA 193 GR. B7	98/A00	SS	2.574	12.028	HPI Stud
40424	Oconee RCP Stud	SA540 Grade B23	98/00A	CS	4.375	0.000	Oconee Reactor Coolant Pump Studs
40425	STUD	14.87" x 2.74" SA 320-L43	98/A00	CS	2.740	14.870	Pressurizer Manway Studs Heat# 116316
50236	PLATE	6.125"x 15.123"x 6.060" SA508	98/A00	CS	0.000	6.125	Heat# 123L418 SS Clad
50237E	FORGING	SA508 CARBON STEEL	98/A00	CS	14.000	3.937	Heat # 123L418 Pressurizer Sensing and Sample Nozzle Cal block for inner radius exams. Carbon Steel forging with .25 inch SS cladding.
50304	PLATE	9" x 36.65" x 37" SA 508 CL.2	98/00A	CS	0.000	9.000	Heat # CCR801 SS Clad Heat #L3541
50373	PIPE	SB 167	98/A00	Inconel	4.500	0.625	Heat# NX4862
NAVSHIPS	PLATE	NavShips TB 2x3x12 Type 304	98/00A	SS	0.000	0.000	SAP# 103155, S/N 045202
PDI-01	FORGING	14"x 2"x14" SA 508 CL. 2	98/00A	CS	0.000	0.000	SAP# 102490 Heat# 6-5769
PDIUT10	PLATE	2" X 9.5" X 2" SA 516 Grade 70	98/A00	CS	0.000	2.000	HEAT# 54091 The ID for this Cal Block should be PDI-UT-1-O. It is abbreviated in the Cal block listing due to limited fields in the data base.

Code Year 1998

Report order: Block no.  
Plant(s): ON3

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System  
Calibration Block Listing

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BLOCK NO.	TYPE	DESCRIPTION	CODE REQ	MATERIAL TYPE/GRADE	DIAM SIZE	THICKNESS (LENGTH)	COMMENTS
PDIUT2O	PLATE	2" X 9.5" X 2" SA 240 type 316	98/A00	SS	0.000	2.000	HEAT# 804036 The ID for this Cal Block should be PDI-UT-2-O. It is abbreviated in the Cal block listing due to limited fields in the data base.

**FOURTH  
TEN-YEAR  
INTERVAL  
INSERVICE INSPECTION PLAN**

**DUKE POWER COMPANY  
OCONEE NUCLEAR STATION  
UNIT 3**



*A Duke Energy Company*

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**FOURTH INTERVAL INSERVICE INSPECTION PLAN**

**OCONEE NUCLEAR STATION UNIT 3**

**and**

**KEOWEE HYDRO STATION UNITS 1 & 2**

**REVISION 0**

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*A Duke Energy Company*

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Inservice Inspection Plan

Oconee Nuclear Station  
Unit 3

L. C. Keith

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**OCONEE NUCLEAR STATION UNIT 3**

**and**

**KEOWEE HYDRO STATION UNITS 1 & 2**

**Inservice Inspection Examination Listing and Schedule**

**Section 1**

**Revision 0**

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The detailed inspection plans for Inservice Inspection of Oconee Unit 3 and Keowee Units 1 & 2 are maintained in this volume. Section 1 contains the examination listing and Section 2 contains a listing of reference drawings.

Duke Power Company  
Inservice Inspection Management  
Inservice Inspection Plan For:  
Oconee Unit 3 and Keowee Units 1 & 2  
Interval 4  
ISI Outage 1  
Refueling Outage EOC 22

**ISI Examination Listing and Schedule**

Revision 0



**CATEGORY B-A, Pressure Retaining Welds In**  
**Reactor Vessel**

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
**Inservice Inspection Database Management System**

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## Head Welds

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS	
**** Circumferential ****										
B01.021.001	3-RPV-WH5		ISI-OCN3-001	NDE-660	UT	CS		0.000	40387	Reactor Vessel Closure Head Ring Pc. 23 to
	Circumferential	50						6.625		Closure Head Cap Pc. 24.
	Class A					Head Ring to Head Cap				
Total B01.021 Items:		1								

**CATEGORY B-A, Pressure Retaining Welds In**  
**Reactor Vessel**

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
**Inservice Inspection Database Management System**

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### **Shell-to-Flange Weld**

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B01.030.001A	3-RPV-WR19		ISI-OCN3-001	NDE-3650	UT	CS	167.630	50304	Reactor Vessel Upper Shell Forging Pc. 86 to
	Circumferential	50	OM-2201-227				12.000		Flange Pc. 7. Inspect from Flange Surface (manual
	Class A				Shell to				scan).
					Flange				
Total B01.030 Items:		1							

**CATEGORY B-A, Pressure Retaining Welds In**  
**Reactor Vessel**

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
**Inservice Inspection Database Management System**

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 1

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### Head-to-Flange Weld

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B01.040.001 Class A	3-RPV-WH7 Circumferential	50	ISI-OCN3-001	NDE-660	UT	CS		0.000 6.625	40387  Reactor Vessel Closure Head Ring Pc. 23 to Closure Head Flange Pc. 22.
B01.040.001A Class A	3-RPV-WH7 Circumferential	50	ISI-OCN3-001	NDE-25	MT	CS		0.000 6.625	Reactor Vessel Closure Head Ring Pc. 23 to Closure Head Flange Pc. 22.
<b>Total B01.040 Items:</b>		<b>2</b>							
<b>Total B01 Items:</b>		<b>4</b>							

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

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### Steam Generators (Primary Side)

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### Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
*** Nozzle-to-Vessel Welds ***											
B03.130.001	3-SGA-WG50-2		ISI-OCN3-003	NDE-640	UT	CS		38.380	40393		Steam Generator 3A Outlet Nozzle Pc. 65 to Lower Head Pc. 7. W-Z Quadrant.
Class A	Circumferential	50	OM 2201-222 B&W 109610E	NDE-970	Nozzle to Head			8.500			
B03.130.002	3-SGA-WG50-1		ISI-OCN3-003	NDE-640	UT	CS		38.380	40393		Steam Generator 3A Outlet Nozzle Pc. 65 to Lower Head Pc. 7. Y-Z Quadrant.
Class A	Circumferential	50	OM 2201-222 B&W 109610E	NDE-970	Nozzle to Head			8.500			
Total B03.130 Items:		2									

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

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### Steam Generators (Primary Side)

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS	
**** Nozzle Inside Radius Section ****										
B03.140.001	3-SGA-WG50-2	50	ISI-OCN3-003 OM 2201-222 B&W 109610E	TBD	UT	CS		38.380 8.500	TBD	Steam Generator 3A Outlet Nozzle Pc. 65 to Lower Head Pc. 7 (Inside Radius Section), W-Z Quadrant.
Class A					Nozzle to Head					
B03.140.002	3-SGA-WG50-1	50	ISI-OCN3-003 OM 2201-222 B&W 109610E	TBD	UT	CS		38.380 8.500	TBD	Steam Generator 3A Outlet Nozzle Pc. 65 to Lower Head Pc. 7 (Inside Radius Section), Y-Z Quadrant.
Class A					Nozzle to Head					
Total B03.140 Items:		2								
Total B03 Items:		4								

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

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## Reactor Vessel

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## Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Head Nuts ****									
B06.010.041	3-RPV-26-209-41	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.042	3-RPV-26-209-42	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.043	3-RPV-26-209-43	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.044	3-RPV-26-209-69	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.045	3-RPV-26-209-45	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.046	3-RPV-26-209-46	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.047	3-RPV-26-209-47	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.048	3-RPV-26-209-48	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									

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

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**Reactor Vessel**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
B06.010.049	3-RPV-26-209-49	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.050	3-RPV-26-209-50	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.051	3-RPV-26-209-51	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.052	3-RPV-26-209-52	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.053	3-RPV-26-209-53	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.054	3-RPV-26-209-54	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.055	3-RPV-26-209-55	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.056	3-RPV-26-209-56	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.057	3-RPV-26-209-57	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
B06.010.058	3-RPV-26-209-58	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.059	3-RPV-26-209-59	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.060	3-RPV-26-209-60	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
Total B06.010 Items:		20					



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

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## Reactor Vessel

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## Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Studs, when removed ****									
B06.030.041	3-RPV-25-209-41	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.042	3-RPV-25-209-42	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.043	3-RPV-25-209-43	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.044	3-RPV-25-209-44	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.045	3-RPV-25-209-45	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.046	3-RPV-25-209-46	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.047	3-RPV-25-209-47	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.048	3-RPV-25-209-48	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									

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

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## Reactor Vessel

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## Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
B06.030.049	3-RPV-25-209-49	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.050	3-RPV-25-209-50	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.051	3-RPV-25-209-51	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.052	3-RPV-25-209-52	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.053	3-RPV-25-209-53	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.054	3-RPV-25-209-54	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.055	3-RPV-25-209-55	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.056	3-RPV-25-209-56	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										
B06.030.057	3-RPV-25-209-57	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420		Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A										

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

**DUKE ENERGY CORPORATION**  
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## Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.058	3-RPV-25-209-58	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.059	3-RPV-25-209-59	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.060	3-RPV-25-209-60	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
Total B06.030 Items:		20							

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter****DUKE ENERGY CORPORATION  
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11/17/2004**Inservice Inspection Plan for Interval 4 Outage 1****Reactor Vessel**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Threads in Flange \*\*\*\***

B06.040.001	3-RPV-LIGAMENTS		OM-2201-96	NDE-640	UT	CS	200.000	40387	Reactor Vessel Flange Threads. Stud Holes 1 - 60.
		50	B&W 149904E				12.500		

Class A

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**Total B06.040 Items: 1**

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter****DUKE ENERGY CORPORATION  
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11/17/2004****Reactor Vessel**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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**\*\*\*\* Closure Washers, Bushings \*\*\*\***

B06.050.003	3-RPV-WASH-BUSH		OM 201-2271	QAL-13	VT-1 CS	9.750	Reactor Vessel Closure Washers and Bushings.
		50	B&W 149922E			0.000	Stud Holes 41-60.

Class A

**Total B06.050 Items: 1**

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****							
B06.070.001	3-PZR-MW-FLANGE		OM 201-1026	QAL-13	VT-1 CS	28.000	Pressurizer Manway Flange Surface. Examination includes 1"annular surface surrounding each stud. Inspect when connection is disassembled. * Do not count in totals.
		50	B&W 149793E			0.000	
Class A							
Total B06.070 Items:		1					

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

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts and Studs ****									
B06.180.006	3-RCP-3A2-S		OM 1201.D-0057	PDI-UT-5	UT	CS	2.250	40359	Reactor Coolant Pump 3A2 Seal Gland Bolts. 8 bolts,
		50	OM 1201.D-0059				0.000		Bolt Length=11.750. Inspect seal gland bolting on one reactor coolant pump only.
Class A									
Total B06.180 Items:		1							

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

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****									
B06.190.001	3-RCP-3A1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.002	3-RCP-3A2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.003	3-RCP-3B1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.004	3-RCP-3B2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
Total B06.190 Items: 4									



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

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nuts, Bushings, and Washers ****</b>									
B06.200.005	3-RCP-3A2-WASHER		OM 1201.D-0059	QAL-13	VT-1	NA		0.000	Reactor Coolant Pump 3A2 Seal Gland Nuts and Washers. 8 nuts and washers. Inspect seal gland nuts and washers on one reactor coolant pump only.
		50	OM 1201.D-0057					0.000	
Class A									
<b>Total B06.200 Items:</b>		<b>1</b>							
<b>Total B06 Items:</b>		<b>49</b>							

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
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11/17/2004**Steam Generators**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts, Studs, and Nuts ****</b>								
B07.030.001	3-SGA-UMW-STUDS	50	B&W 145470E	QAL-13	VT-1 CS	2.000 0.000		Steam Generator 3A Upper Head Manway Studs and Nuts. 16 studs and nuts. Stud length = 11.500". Examine all studs and nuts.
Class A								
B07.030.002	3-SGA-LMW-STUDS	50	B&W 145470E	QAL-13	VT-1 CS	2.000 0.000		Steam Generator 3A Lower Head Manway Studs and Nuts. 16 studs and nuts. Stud length = 11.500". Examine all studs and nuts.
Class A								
Total B07.030 Items:		2						

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
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11/17/2004****CRD Housings****Oconee 3****Inservice Inspection Plan for Interval 4 Outage 1**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.080.001	3-RPV-CRD-HOUSING		B&W 149902E	QAL-13	VT-1	NA		0.000	CRD Housing includes bolts (8 bolts per connection) and housing rings (1 pair per housing). Inspect only if disassembled.
		50	B&W 149919E					0.000	
Class A									

**Total B07.080 Items: 1****Total B07 Items: 3**

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

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**NPS 4 or Larger**

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## **Inservice Inspection Plan for Interval 4 Outage 1**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>									
B09.011.005	3-PIA1-1		ISI-OCN3-007	NDE-600	UT	CS	33.500		Pump 3A1 Suction Piping. SG3A Outlet Nozzle to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Pipe Pc. 67.
Class A	Term end				Nozzle to				Pipe
B09.011.005A	3-PIA1-1		ISI-OCN3-007	NDE-25	MT	CS	33.500		Pump 3A1 Suction Piping. SG3A Outlet Nozzle to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Pipe Pc. 67.
Class A	Term end				Nozzle to				Pipe
B09.011.007	3-PIA1-8		ISI-OCN3-007	NDE-600	UT	SS	33.500		Pump 3A1 Suction Piping. Safe End Pc. 55 to RCP
	Circumferential	50	O-ISIN4-100A-3.1				2.330		3A1 Suction Nozzle.
Class A	Term end				Safe End to				Nozzle
B09.011.007A	3-PIA1-8		ISI-OCN3-007	NDE-35	PT	SS	33.500		Pump 3A1 Suction Piping. Safe End Pc. 55 to RCP
	Circumferential	50	O-ISIN4-100A-3.1				2.330		3A1 Suction Nozzle.
Class A	Term end				Safe End to				Nozzle
B09.011.009	3-PIA2-4		ISI-OCN3-008	NDE-600	UT	CS	33.500		Pump 3A2 Suction Piping. Pipe Pc. 63 to Elbow Pc.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		62.
Class A	Stress weld				Pipe to				Elbow
B09.011.009A	3-PIA2-4		ISI-OCN3-008	NDE-25	MT	CS	33.500		Pump 3A2 Suction Piping. Pipe Pc. 63 to Elbow Pc.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		62.
Class A	Stress weld				Pipe to				Elbow
B09.011.012	3-PIB1-4		ISI-OCN3-009	NDE-600	UT	CS	33.500		Pump 3B1 Suction Piping. Pipe Pc. 63 to Elbow Pc.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		62.
Class A	Stress weld				Pipe to				Elbow
B09.011.012A	3-PIB1-4		ISI-OCN3-009	NDE-25	MT	CS	33.500		Pump 3B1 Suction Piping. Pipe Pc. 63 to Elbow Pc.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		62.
Class A	Stress weld				Pipe to				Elbow

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

## **DUKE ENERGY CORPORATION INSERVICE INSPECTION PLAN MANAGEMENT Inservice Inspection Database Management System**

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**NPS 4 or Larger**

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### **Inservice Inspection Plan for Interval 4 Outage 1**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.015	3-PIB2-4		ISI-OCN3-010	NDE-600	UT	CS	33.500		Pump 3B2 Suction Piping. Pipe Pc. 63 to Elbow Pc. 62.
Class A	Circumferential	50	O-ISIN4-100A-3.1				2.330		
	Stress weld				Pipe to Elbow				
B09.011.015A	3-PIB2-4		ISI-OCN3-010	NDE-25	MT	CS	33.500		Pump 3B2 Suction Piping. Pipe Pc. 63 to Elbow Pc. 62.
Class A	Circumferential	50	O-ISIN4-100A-3.1				2.330		
	Stress weld				Pipe to Elbow				
B09.011.017	3-PDA1-2		ISI-OCN3-011	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3A1 Discharge Piping. Safe End Pc. 49 to Elbow Pc. 53. Perform UT from Elbow Side and Safe End Side.
Class A	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	
	Dissimilar				Safe End to Elbow				
B09.011.017A	3-PDA1-2		ISI-OCN3-011	NDE-35	PT	SS-CS	33.500		Pump 3A1 Discharge Piping. Safe End Pc. 49 to Elbow Pc. 53.
Class A	Circumferential	50	O-ISIN4-100A-3.1				2.330		
	Dissimilar				Safe End to Elbow				
B09.011.035	3HP-241-3		3HP-241	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-63-3 until iso 3-51A -63 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
					Valve 3HP-194 to Pipe				
B09.011.035A	3HP-241-3		3HP-241	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-63-3 until iso 3-51A -63 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Valve 3HP-194 to Pipe				
B09.011.037	3-53A-15-33		3-53A-15 (1)	NDE-600	UT	SS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class A	Circumferential	53A	O-ISIN4-102A-3.3	See Com			1.250		
					Elbow to Pipe				
B09.011.037A	3-53A-15-33		3-53A-15 (1)	NDE-35	PT	SS	14.000		
Class A	Circumferential	53A	O-ISIN4-102A-3.3				1.250		
					Elbow to Pipe				

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

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### **NPS 4 or Larger**

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## Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.038	3-53A-15-34		3-53A-15 (1)	NDE-600	UT	SS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.3	See Com			1.250		
Class A					Pipe to Pipe				
B09.011.038A	3-53A-15-34		3-53A-15 (1)	NDE-35	PT	SS	14.000		
	Circumferential	53A	O-ISIN4-102A-3.3				1.250		
Class A					Pipe to Pipe				
B09.011.039	3-53A-15-35		3-53A-15 (1)	NDE-600	UT	SS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.3	See Com			1.250		
Class A					Pipe to Elbow				
B09.011.039A	3-53A-15-35		3-53A-15 (1)	NDE-35	PT	SS	14.000		
	Circumferential	53A	O-ISIN4-102A-3.3				1.250		
Class A					Pipe to Elbow				
B09.011.055	3-PIA1-7		ISI-OCN3-007	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3A1 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55. Perform UT from the Pipe Side and Safe End Side.
	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	
Class A	Dissimilar				Pipe to Safe End				
B09.011.055A	3-PIA1-7		ISI-OCN3-007	NDE-35	PT	SS-CS	33.500		Pump 3A1 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Dissimilar				Pipe to Safe End				
Total B09.011 Items:		22							

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

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Less Than NPS 4

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## **Inservice Inspection Plan for Interval 4 Outage 1**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>*** Circumferential Welds ***</b>									
B09.021.010	3-PSP-14		ISI-OCN3-016	NDE-35	PT	SS		2.500	Pressurizer Spray Piping. Elbow Pc. 98 to Tee Pc. 105.
	Circumferential	50	O-ISIN4-100A-3.2					0.375	
Class A	Stress weld				Elbow. to Tee				
B09.021.012	3-PIB1-10		ISI-OCN3-009	NDE-35	PT	CS-Inconel		3.500	Pump 3B1 Suction Piping. Drain Nozzle Pc. 87 to Safe End Pc. 88.
	Circumferential	50	O-ISIN4-100A-3.1					0.672	
Class A	Dissimilar				Nozzle to Safe End				
B09.021.038	3HP-241-12A		3HP-241	NDE-35	PT	SS		2.500	This weld was listed previously as 3-51A-63-12A until iso 3-51A -63 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
Class A					Tee to Pipe				
B09.021.040	3HP-241-18A		3HP-241	NDE-35	PT	SS		2.500	This weld was listed previously as 3-51A-63-18A until iso 3-51A -63 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
Class A					Pipe to Elbow				
B09.021.043	3HP-241-33		3HP-241	NDE-35	PT	SS		2.500	This weld was listed previously as 3-51A-63-33 until iso 3-51A -63 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
Class A					Elbow to Pipe				
B09.021.044	3RC-211-47		3RC-211	NDE-35	PT	SS		2.500	
	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
Class A	Stress weld				Valve 3HP-487 to Valve 3HP-127				
B09.021.059	3LP-135-2		3LP-135	NDE-35	PT	SS		3.000	This weld was listed previously as 3-53A-37-2 until iso 3-51A-37 was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.1					0.438	
Class A					Pipe to Valve 3LP-103				

Total B09.021 Items: 7

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

**DUKE ENERGY CORPORATION**  
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## Branch Pipe Connection Welds

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Less Than NPS 4 ****									
B09.032.001	3-PIA1-10		ISI-OCN3-007	NDE-35	PT	CS-Inconel	12.000		Pump 3A1 Suction Piping. Drain Nozzle Pc. 64 to
	Branch	50	O-ISIN4-100A-3.1				2.250		Pipe Pc. 63. The NPS of the branch line is 1.5
Class A					Nozzle to				inches.
	Dissimilar				Pipe				
B09.032.004	3-PDA1-10		ISI-OCN3-011	NDE-25	MT	CS	12.000		Pump 3A1 Discharge Piping. Pipe Pc. 44 to HPI
	Branch	50	O-ISIN4-100A-3.1				2.250		Nozzle Pc. 46. The NPS of the branch line is 2.5
Class A	Stress weld				Pipe to				inches.
					Nozzle				
Total B09.032 Items:		2							



**CATEGORY B-J, Pressure Retaining Welds In Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Inservice Inspection Plan for Interval 4 Outage 1****Socket Welds**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
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B09.040.001	3-50-152-10		3-50-152	NDE-35	PT	SS		1.500	
	Socket	50	O-ISIN4-100A-3.2					0.281	
Class A					Pipe to Tee				

B09.040.009	3RC-265-67		3RC-265	NDE-35	PT	SS		1.500	
	Socket	51A	O-ISIN4-100A-3.1					0.281	
Class A					Pipe to Elbow				

B09.040.010	3RC-265-76		3RC-265	NDE-35	PT	SS		1.500	
	Socket	51A	O-ISIN4-100A-3.1					0.281	
Class A					Elbow to Pipe				

Total B09.040 Items:	3
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Total B09 Items:	34
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**CATEGORY B-K, Welded Attachments For  
Vessels, Piping, Pumps, And Valves**DUKE ENERGY CORPORATION  
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11/17/2004**Pressure Vessels**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
*** Welded Attachments ***									
B10.010.004	3-LDC-A		0M 201-3107	NDE-25	MT	NA	0.000		Letdown Cooler 3A Support Pc.12 to Casing Shell
		51A	O-ISIN4-101A-3.1				0.000		Pc.8.
Class A									

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Total B10.010 Items: 1

**CATEGORY B-K, Welded Attachments For  
Vessels, Piping, Pumps, And Valves**DUKE ENERGY CORPORATION  
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Piping

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

B10.020.012	3-51A-0-2478A-H5C		3-51-14/sht.1	NDE-35	PT	NA		2.500	Calculation No. OSC-1660-01. Inspect with
	Rigid Support	51A	O-ISIN4-101A-3.1					0.500	F01.010.015.
Class A									

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**Total B10.020 Items: 1**

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**Total B10 Items: 2**

**CATEGORY B-L-2, Pump Casings**

**DUKE ENERGY CORPORATION**  
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**Pumps**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>*** Pump Casing ***</b>							
B12.020.001	3RCP-3A1-CASING	50	ISI-OCN3-007	QAL-14	VT-3 SS	68.000	Reactor Coolant Pump 3A1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057			0.000	
			OM-1201D-0005				
B12.020.002	3RCP-3A2-CASING	50	ISI-OCN3-008	QAL-14	VT-3 SS	68.000	Reactor Coolant Pump 3A2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057			0.000	
			OM-1201D-0005				
B12.020.003	3RCP-3B1-CASING	50	ISI-OCN3-009	QAL-14	VT-3 SS	68.000	Reactor Coolant Pump 3B1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057			0.000	
			OM-1201D-0005				
B12.020.004	3RCP-3B2-CASING	50	ISI-OCN3-010	QAL-14	VT-3 SS	68.000	Reactor Coolant Pump 3B2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057			0.000	
			OM-1201D-0005				

Total B12.020 Items:

4

### CATEGORY B-M-2, Valve Body

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## Valves

<u>ITEM NUMBER</u>	<u>ID NUMBER</u>	SYS	<u>ISO/DWG NUMBERS</u>	<u>PROC</u>	<u>INSP REQ MAT/SCH</u>	<u>DIA/THK CAL BLOCKS</u>	<u>COMMENTS</u>
<b>**** Valve Body, Exceeding NPS 4 ****</b>							
B12.050.001	3-53A-CF-11	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	A-Side Core Flood Valve Body 3CF-11 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.002	3-53A-CF-12	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	A-Side Core Flood Valve Body 3CF-12 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.003	3-53A-CF-13	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	B-Side Core Flood Valve Body 3CF-13 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.004	3-53A-CF-14	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	B-Side Core Flood Valve Body 3CF-14 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.005	3-53A-LP-47	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3 SS	10.000 0.000	B-Side LPI Valve Body 3LP-47 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.006	3-53A-LP-48	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3 SS	10.000 0.000	B-Side LPI Valve Body 3LP-48 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.007	3-53A-LP-1	53	OM-201-165 O-ISIN4-102A-3.1	QAL-14	VT-3 SS	12.000 0.000	Decay Heat Suction Valve Body 3LP-1 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							

**CATEGORY B-M-2, Valve Body**

**DUKE ENERGY CORPORATION**  
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## Valves

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
B12.050.008	3-53A-LP-2		OM-201-165	QAL-14	VT-3	SS		12.000	Decay Heat Suction Valve Body 3LP-2 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.1					0.000	

**Total B12.050 Items: 8**

**Total B12 Items: 12**

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

## Reactor Vessel

**DUKE ENERGY CORPORATION**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welds in CRD Housing ****									
B14.010.005	3-RPV-CRD-62WH9	50	B&W 149920E	NDE-35	PT	SS-Inconel	4.060 0.650		CRDM #62 Housing Body to Adapter.
Class A						Housing Body to Adapter			
B14.010.006	3-RPV-CRD-62WH60	50	B&W 43-53-032-12	NDE-35	PT	SS-CS	5.000 0.500		CRDM #62 Base to Motor Tube.
Class A						Base to Motor Tube			
B14.010.007	3-RPV-CRD-62	50	B&W 43-53-033-09	NDE-35	PT	SS-CS	4.300 0.400		CRDM #62 Motor Tube to Extension.
Class A						Motor Tube to Extension			
B14.010.008	3-RPV-CRD-62W61	50	B&W 43-53-032-12	NDE-35	PT	SS	4.190 0.380		CRDM #62 Extension to Cap.
Class A						Extension to Cap			
Total B14.010 Items:		4							
Total B14 Items:		4							

**CATEGORY C-A, Pressure Retaining Welds In  
Pressure Vessels**DUKE ENERGY CORPORATION  
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11/17/2004**Shell Circumferential Welds**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.010.003	3-SGA-WG8-3		ISI-OCN3-003	TBD	UT	CS	138.000	TBD	Steam Generator 3A Shell Pc.3 to Shell Pc.4.
	Circumferential	03	OM-2201-222				4.188		
	Class B				Shell to				
					Shell				
C01.010.004	3-SGA-WG8-4		ISI-OCN3-003	TBD	UT	CS	138.000	TBD	Steam Generator 3A Shell Pc.5 to Shell Pc.6.
	Circumferential	03	OM-2201-222				4.188		
	Class B				Shell to				
					Shell				
Total C01.010 Items:		2							
Total C01 Items:		2							



**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**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Weld \*\*\*\***

C02.021.001	3-SGA-WG23-2		ISI-OCN3-003	NDE-620	UT	CS	29.000	50236	Steam Generator 3A Outlet Nozzle Pc.14 to Shell Pc.3. X-Y Quadrant. Depending upon examiner's qualifications, Procedure PDI-UT-6 may be used in lieu of Procedure NDE-620.
	Circumferential	50	OM 2201-222	See Com			6.750		
Class B					Nozzle to Shell				
C02.021.001A	3-SGA-WG23-2		ISI-OCN3-003	NDE-25	MT	CS	29.000		Steam Generator 3A Outlet Nozzle Pc.14 to Shell Pc.3. X-Y Quadrant.
	Circumferential	50	OM 2201-222				6.750		
Class B					Nozzle to Shell				

Total C02.021 Items: 2

**\*\*\*\* Nozzle Inside Radius Section \*\*\*\***

C02.022.001	3-SGA-WG23-2		ISI-OCN3-003	TBD	VT-1	CS	29.000		Steam Generator 3A Outlet Nozzle Pc.14 to Shell Pc.3 (Inside Radius Section) X-Y Quadrant.
	Circumferential	50	OM 2201-222				6.750		
Class B					Nozzle to Shell				

Total C02.022 Items: 1

Total C02 Items: 3

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

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## Piping

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>									
C03.020.004	3-01A-0-2401B-H19		3-01-01/sht.2	NDE-35	PT	NA		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1					0.250	Inspect with H04.001.042 and F01.020.004.
Class B									
C03.020.042	3-51A-1-0-2437A-SR16		3-51-05/sht.1	NDE-35	PT	NA		4.000	Calculation No. OSC-542. Inspect with F01.021.049.
	Rigid Restraint	51A	O-ISIN4-101A-3.3					0.125	
Class B									
C03.020.051	3-53-0-2478A-H5		3-56-03/sht.2	NDE-35	PT	NA		12.000	Calculation No. OSC-1339-06.
	Rigid Restraint	53	O-ISIN4-102A-3.1					0.375	
Class B									
C03.020.062	3-54A-3-0-2435B-SR7		3-54-02/sht.1	NDE-35	PT	NA		8.000	Calculation No. OSC-555. Inspect with F01.022.043.
	Hyd Snubber	54A	O-ISIN4-103A-3.1					1.000	
Class B									
<b>Total C03.020 Items:</b>		<b>4</b>							
<b>Total C03 Items:</b>		<b>4</b>							

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.011.004	3LP-134-103		3LP-134	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-15-92 until iso 3-53A-15 (2) was redrawn. This weld was listed previously as 3LP-134-92 until iso 3LP-134 was revised and deleted this weld. Weld was remade as 3LP-134-103. The ID of the 12" x 10" reducer has been machined to 10.413 (plus/minus .010"). Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
	Class B		O-ISIN4-102A-3.3			Reducer to Valve 3LP-18			
C05.011.004A	3LP-134-103		3LP-134	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-15-92 until iso 3-53A-15 (2) was redrawn. This weld was listed previously as 3LP-134-92 until iso 3LP-134 was revised and deleted this weld. Weld was remade as 3LP-134-103. The ID of the 12" x 10" reducer has been machined to 10.413 (plus/minus .010").
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
	Class B		O-ISIN4-102A-3.3			Reducer to Valve 3LP-18			
C05.011.010	3LP-132-18		3LP-132	NDE-600	UT	SS	10.000		This weld was listed previously as 3-53A-24-8 until iso 3-53A-24 was redrawn. This weld was previously listed as 3LP-132-8; but due to isometric revision this weld was deleted. Weld is now 3LP-132-18.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
	Class B					Elbow to Pipe			
C05.011.010A	3LP-132-18		3LP-132	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-24-8 until iso 3-53A-24 was redrawn. This weld was previously listed as 3LP-132-8; but due to an isometric revision this weld has been deleted. This weld is now 3LP-132-18.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
	Class B					Elbow to Elbow			
C05.011.011	3LP-132-20		3LP-132	NDE-600	UT	SS	10.000	See Com	Reference Request for Relief 95-02 for calibration block. This weld was listed previously as 3-53A-24-9 until iso 3-53A-24 was redrawn. This weld was previously listed as 3LP-132-9; but due to an isometric revision deleted this weld. This weld is now 3LP-132-20. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
	Class B					Elbow to Pipe			

**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS Or High Alloy Piping**DUKE ENERGY CORPORATION  
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for Piping  $>$  NPS 4**

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
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procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.

C05.011.011A	3LP-132-20		3LP-132	NDE-35	PT	SS	10.000			This weld was listed previously as 3-53A-24-9 until iso 3-53A-24 was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125			This weld was previously listed as 3LP-132-9; but due to an isometric revision deleted this weld. This weld is now 3LP-132-20.
	Class B				Elbow to					
					Pipe					

**Total C05.011 Items: 6**

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

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

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.021.001	3-51A-101-1		3-51A-101	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Elbow to Pipe		0.375		
C05.021.001A	3-51A-101-1		3-51A-101	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Elbow to Pipe		0.375		
C05.021.010	3-51A-118-31		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.010A	3-51A-118-31		3-51A-118	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.020	3-51A-120-8		3-51A-120	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.020A	3-51A-120-8		3-51A-120	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.028	3-51A-141-20		3-51A-141	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Elbow to Pipe		0.375		
C05.021.028A	3-51A-141-20		3-51A-141	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Elbow to Pipe		0.375		
	Term end								

**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 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.037	3-51A-52-39		3-51A-52	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Tee to Reducer		0.531		
C05.021.037A	3-51A-52-39		3-51A-52	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Tee to Reducer		0.531		
C05.021.038	3-51A-52-40		3-51A-52	NDE-600	UT	SS	3.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Reducer to Pipe		0.438		
C05.021.038A	3-51A-52-40		3-51A-52	NDE-35	PT	SS	3.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Reducer to Pipe		0.438		
C05.021.047	3-51A-59-6		3-51A-59	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.047A	3-51A-59-6		3-51A-59	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.052	3HP-365-9C		3HP-365	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-66-9C on iso 3-51A-66 until it was transferred to iso 3HP-365. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Tee to Pipe		0.674		
C05.021.052A	3HP-365-9C		3HP-365	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Tee to Pipe		0.674		This weld was listed previously as 3-51A-66-9C on iso 3-51A-66 until it was transferred to iso 3HP-365.

**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 3

## Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.060	3-51A-87-25		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Tee		0.531		
C05.021.060A	3-51A-87-25		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Tee		0.531		
C05.021.070	3-RCP-FTR3B-SH-1		3-51A-87	NDE-12	RT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Flange to RCP 3B Filter		0.531		
	Term end		OM-201-0473-001						
C05.021.070A	3-RCP-FTR3B-SH-1		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Flange to RCP 3B Filter		0.531		
	Term end		OM-201-0473-001						
C05.021.071	3-RCP-FTR3B-SH-2		3-51A-87	NDE-12	RT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		RCP 3B Filter to Flange		0.531		
	Term end		OM-201-0473-001						
C05.021.071A	3-RCP-FTR3B-SH-2		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		RCP 3B Filter to Flange		0.531		
	Term end		OM-201-0473-001						
Total C05.021 Items:		22							

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
*** Circumferential Weld ***									
C05.051.011	3-01A-23-9		3-01A-23	NDE-12	RT	CS	24.000		
	Circumferential	01A	O-ISIN4-122A-3.1				0.969		
Class B	Term end					Reducer to Nozzle S/G 3A			
C05.051.011A	3-01A-23-9		3-01A-23	NDE-25	MT	CS	24.000		
	Circumferential	01A	O-ISIN4-122A-3.1				0.969		
Class B	Term end					Reducer to Nozzle S/G 3A			
C05.051.013	3-01A-24-8		3-01A-24	NDE-12	RT	CS	24.000		
	Circumferential	01A	O-ISIN4-122A-3.1				0.969		
Class B	Term end					Reducer to Nozzle S/G 3B			
C05.051.013A	3-01A-24-8		3-01A-24	NDE-25	MT	CS	24.000		
	Circumferential	01A	O-ISIN4-122A-3.1				0.969		
Class B	Term end					Reducer to Nozzle S/G 3B			
C05.051.021	3-03-31-16A		3-03-31	NDE-12	RT	CS	24.000		
	Circumferential	03	O-ISIN4-121B-3.3				1.218		
Class B						Valve 3FDW-37 to Pipe			
C05.051.021A	3-03-31-16A		3-03-31	NDE-25	MT	CS	24.000		
	Circumferential	03	O-ISIN4-121B-3.3				1.218		
Class B						Valve 3FDW-37 to Pipe			
C05.051.023	3-03A-147-16		3-03A-147	NDE-12	RT	CS	6.000		
	Circumferential	03A	O-ISIN4-121B-3.3				0.432		
Class B						Pipe to Pipe Cap			
C05.051.023A	3-03A-147-16		3-03A-147	NDE-25	MT	CS	6.000		
	Circumferential	03A	O-ISIN4-121B-3.3				0.432		
Class B						Pipe to Pipe Cap			



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

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

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.027	3LPS-509-5		3LPS-509	NDE-600	UT	CS	8.000	See Com	Note:Weld 3-14B-116-16 was inspected in outage 1 for item # C05.051.027and since then has been deleted and weld 3LPS-509-5 took its place. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		
					Valve 3LPS-16 to Pipe				
C05.051.027A	3LPS-509-5		3LPS-509	NDE-25	MT	CS	8.000		Note:Weld 3-14B-116-16 was inspected in outage 1 for item # C05.051.027A and since then has been deleted and weld 3LPS-509-5 took its place.
Class B	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
					Valve 3LPS-16 to Pipe				
C05.051.041	3LPS-478-56		3LPS-478	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-56 until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		
					Pipe to Flange				
C05.051.041A	3LPS-478-56		3LPS-478	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-56 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
					Pipe to Flange				

**Total C05.051 Items: 12**

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

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## **Socket Welds**

### Ocone 3

### Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.070.001	3-BWST-OUT-2		3-53B-46	NDE-35	PT	CS		14.000	Slip-On Flange to Borated Storage Tank Outlet Nozzle. Dwg-OM-1201-80.
	Socket	53B	O-ISIN4-102A-3.1					0.375	
Class B	Term end		OM-2201-0839		Flange to Nozzle				
Total C05.070 Items:		1							

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

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### Pipe Branch Connections of Branch Piping $\geq$ NPS 2

### Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.081.001	3MS-22A-E		3MS-117	NDE-25	MT	CS	8.000		Grinnell Subassembly 3MS-22A. This subassembly weld was listed previously on iso 3-01A-10 until it was transferred to iso 3MS-117.
	Branch	01A	O-ISIN4-122A-3.1				0.500		
	Class B		3MS-22A		Pipe to Pipe				
<b>Total C05.081 Items:</b>		<b>1</b>							
<b>Total C05 Items:</b>		<b>42</b>							

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

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**Piping**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>							
D01.020.001	3-01A-2403D-LC-1603		3-01A-04/sht.1	QAL-13	VT-1 NA	6.000	Calculation No. OSC-510. Inspect with F01.031.001.
	Rigid Restraint	01A	O-ISIN4-122A-3.4			0.187	
Class C			O-3TB-301A04-01				
D01.020.021	3-03-0-2439B-H54		3-03-01/sht.1	QAL-13	VT-1 NA	24.000	Calculation No. OSC-512.
	Rigid Support	03	O-ISIN4-121B-3.3			2.000	Inspect with H04.001.002 and F01.030.021.
Class C							
D01.020.024	3-03A-1-0-2401A-H52		3-03A-02/sht.2	QAL-13	VT-1 NA	6.000	Calculation No. OSC-513. Inspect with F01.030.023.
	Spring Hgr	03A	O-ISIN4-121B-3.3			0.125	
Class C			O-3TB-303A02-02				
D01.020.074	3-14B-2439B-DE043		3-14-05/sht.2	QAL-13	VT-1 NA	10.000	Calculation No. OSC-533. Inspect with F01.030.103.
	Rigid Support	14B	O-ISIN4-124B-3.4			0.280	
Class C							
<hr/>							
<b>Total D01.020 Items:</b>		<b>4</b>					
<b>Total D01 Items:</b>		<b>4</b>					

### CATEGORY F-A, Supports

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## **Class 1 Piping Supports**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.010.014	3-51A-0-2479A-H5A	51A	3-53-10/sht.4	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1343-06 Vol.B, H.P.I. East Coolant Loop.
	Rigid Support		O-ISIN4-101A-3.4					0.375	
Class A			O-3RB-35310-04						
F01.010.015	3-51A-0-2478A-H5C	51A	3-51-14/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1660-01, Inspect with B10.020.012.
	Rigid Support		O-ISIN4-101A-3.1					0.500	
Class A									
Total F01.010 Items:		2							
**** Category B, Multi-Directional ****									
F01.011.025	3-53A-0-2479A-H24C	53A	3-53-09/sht.2	QAL-14	VT-3	NA		1.500	Calculation No. OSC-1343-06 Vol.A.
	Rigid Restraint		O-ISIN4-100A-3.2					0.250	
Class A			O-3RB-35309-02						
Total F01.011 Items:		1							
**** Category C, Thermal Movement ****									
F01.012.011	3-51A-0-2479A-H11A	51A	3-53-01/sht.3	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1343-06 Vol.B, H.P.I. East Coolant Loop.
	Spring Hgr		O-ISIN4-101A-3.4					0.000	
Class A			O-3RB-35301-03						
Total F01.012 Items:		1							

### CATEGORY F-A, Supports

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## Class 2 Piping Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.020.004	3-01A-0-2401B-H19		3-01-01/sht.2	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
Class B	Rigid Support	01A	O-ISIN4-122A-3.1					0.250	Inspect with H04.001.042 and C03.020.004.
F01.020.011	3-03-0-2479A-H5A		3-03-07/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-1335.
Class B	Rigid Support	03	O-ISIN4-121B-3.3 O-2490B-4(S)					0.365	
F01.020.022	3-14B-0-2439B-WM-1001		3-14-06/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-535.
Class B	Rigid Support	14B	O-ISIN4-124B-3.2					0.000	
F01.020.023	3-14B-0-2479A-H16A		3-14B-08/sht.1	QAL-14	VT-3	NA		8.000	Calculation No. OSC-1344-06.
Class B	Rigid Support	14B	O-ISIN4-124B-3.2					0.000	
F01.020.035	3-51A-1-0-2439A-H240		3-51-04/sht.1	QAL-14	VT-3	NA		4.000	Calculation No. OSC-541.
Class B	Rigid Support	51A	O-ISIN4-101A-3.4					0.000	
F01.020.036	3-51A-1-0-2439A-H241		3-51-04/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-541.
Class B	Rigid Support	51A	O-ISIN4-101A-3.4					0.154	
F01.020.037	3-51A-1-0-2439A-H314		3-51-05/sht.7	QAL-14	VT-3	NA		4.000	Calculation No. OSC-541.
Class B	Rigid Support	51A	O-ISIN4-101A-3.4					0.000	
F01.020.038	3-51A-0-2438C-DE030		3-51-07/sht.1	QAL-14	VT-3	NA		4.000	Calculation No. OSC-544.
Class B	Rigid Support	51A	O-ISIN4-101A-3.4					0.000	

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## Class 2 Piping Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.039	3-51A-0-2478A-RJ-1000		3-51-14/sht.5	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1660-01.
	Rigid Support	51A	O-ISIN4-101A-3.1				0.375		
Class B									
F01.020.040	3-51A-0-2479A-H17C		3-51-14/sht.5	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1660-01.
	Rigid Support	51A	O-ISIN4-101A-3.1				0.145		
Class B									
F01.020.074	3-53B-2-0-2436C-H143		3-51-02/sht.2	QAL-14	VT-3	NA	8.000		Calculation No. OSC-539.
	Rigid Support	53B	O-ISIN4-102A-3.1				0.125		
Class B			O-3AB-35102-02						
F01.020.083	3-54A-3-0-2436D-H46		3-54-01/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-554.
	Rigid Support	54A	O-ISIN4-103A-3.1				0.125		
Class B									
Total F01.020 Items:		12							
**** Category B, Multi-Directional ****									
F01.021.028	3-14B-0-2479A-H11F		3-14B-13/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-1344-06 Vol.7. This support
	Rigid Restraint	14B	O-ISIN4-124B-3.2				0.000		can be found on hanger sketch 3-14B-0-2479A-H11.
Class B									
F01.021.049	3-51A-1-0-2437A-SR16		3-51-05/sht.1	QAL-14	VT-3	NA	4.000		Calculation No. OSC-542. Inspect with
	Rigid Restraint	51A	O-ISIN4-101A-3.3				0.125		C03.020.042.
Class B									
Total F01.021 Items:		2							
**** Category C, Thermal Movement ****									
F01.022.043	3-54A-3-0-2435B-SR7		3-54-02/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-555. Inspect with C03.020.062.
	Hyd Snubber	54A	O-ISIN4-103A-3.1				1.000		
Class B									
Total F01.022 Items:		1							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.030.002	3-01A-2403E-H4458		3-01A-04/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-510.
Class C	Rigid Support	01A	O-ISIN4-122A-3.4 O-3TB-301A04-02					0.000	
F01.030.021	3-03-0-2439B-H54		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Rigid Support	03	O-ISIN4-121B-3.3					2.000	Inspect with H04.001.002 and D01.020.021.
F01.030.024	3-03A-1-0-2439B-H13		3-03A-06/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-519.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
F01.030.027	3-03A-1-0-2437A-H137		3-03A-07/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-524.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
F01.030.030	3-03A-2400A-H126		3-03A-09/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
F01.030.040	3-03A-2401B-DE024		3-03A-02/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-513.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1 O-3TB-303A02-01					0.000	
F01.030.052	3-04A-2-0-2439B-SR4		3-04A-01	QAL-14	VT-3	NA		6.000	Calculation No. OSC-520.
Class C	Rigid Support	04A	O-ISIN4-121B-3.5					1.000	
F01.030.081	3-08-2400A-H10		3-08-01/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-1808.
Class C	Rigid Support	08	O-ISIN4-122A-3.4					0.000	



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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.030.103	3-14B-2439B-DE043		3-14-05/sht.2	QAL-14	VT-3	NA	10.000		Calculation No. OSC-533. Inspect with
	Rigid Support	14B	O-ISIN4-124B-3.4				0.280		D01.020.074.
Class C									
F01.030.104	3-14B-2439B-DE033		3-14-06/sht.2	QAL-14	VT-3	NA	8.000		Calculation No. OSC-535.
	Rigid Support	14B	O-ISIN4-124B-3.2				0.237		
Class C									
F01.030.105	3-14B-2439B-DE044		3-14-06/sht.3	QAL-14	VT-3	NA	8.000		Calculation No. OSC-535.
	Rigid Restraint	14B	O-ISIN4-124B-3.2				0.280		
Class C									
F01.030.106	3-14B-2437B-DE007		3-14B-03/sht.1	QAL-14	VT-3	NA	16.000		Calculation No. OSC-531.
	Rigid Support	14B	O-ISIN4-124B-3.1				0.187		
Class C									
F01.030.107	3-14B-2437A-DE019		3-14B-07/sht.1	QAL-14	VT-3	NA	12.000		Calculation No. OSC-1357.
	Rigid Support	14B	O-ISIN4-124B-3.1				0.187		
Class C									
F01.030.112	3-56-5-0-2437A-H2		3-56-01/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-567.
	Rigid Support	56	O-ISIN4-104A-3.1				0.125		
Class C									
F01.030.113	3-56-1-0-2437A-SR110		3-56-02/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-563.
	Rigid Support	56	O-ISIN4-104A-3.1				0.125		
Class C			O-3AB-35602-01						
F01.030.114	3-56-1-0-2437A-SR102		3-56-02/sht.2	QAL-14	VT-3	NA	8.000		Calculation No. OSC-563.
	Rigid Support	56	O-ISIN4-104A-3.1				0.125		
Class C			O-3AB-35602-02						

Total F01.030 Items: 16

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
F01.031.001	3-01A-2403D-LC-1603	01A	3-01A-04/sht.1	QAL-14	VT-3 NA	6.000	Calculation No. OSC-510. Inspect with D01.020.001.
	Rigid Restraint		O-ISIN4-122A-3.4			0.187	
Class C			O-3TB-301A04-01				
F01.031.028	3-03A-2439F-H5618	03A	3-03A-13/sht.1	QAL-14	VT-3 NA	10.000	Calculation No. OSC-1224-23.
	Rigid Restraint		O-ISIN4-121D-3.1			0.000	
Class C			O-3AB-303A13-01				
Total F01.031 Items:		2					
**** Category C, Thermal Movement ****							
F01.032.023	3-03A-1-O-2401A-H52	03A	3-03A-02/sht.2	QAL-14	VT-3 NA	6.000	Calculation No. OSC-513. Inspect with D01.020.024.
	Spring Hgr		O-ISIN4-121B-3.3			0.125	
Class C			O-3TB-303A02-02				
Total F01.032 Items:		1					

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### **Supports Other Than Piping Supports**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Class 1, 2, and 3 ****									
F01.040.004	3-LDC-A		OM 201-3107	QAL-14	VT-3	NA		0.000	Letdown Cooler 3A Support.
Class A		51A	O-ISIN4-101A-3.1					0.000	
F01.040.005	3-DHRC-A		OM 201-0286	QAL-14	VT-3	NA		0.000	Decay Heat Removal 3A Support. Equipment
Class C		53	O-ISIN4-102A-3.2					0.000	support located on Class C side.
			OM 2201-227						
F01.040.006	3-50-RCPM-H6625		OM 201.D-003	QAL-14	VT-3	NA		6.000	Reactor Coolant Pump 3B2 Motor Constant
Class A	Constant Support	50	O-ISIN4-100A-3.1					0.000	Support.
			O-ISIN4-100A-3.3						
F01.040.007	3-RB-CC-C		OM 201-3142	QAL-14	VT-3	NA		0.000	Reactor Building Cooling Coils 3C. Also reference
Class B		14B	O-ISIN4-124B-3.2					0.000	OM 201-0514.
			OM 235-0513						
F01.040.011	3-LPSW-PU-A		OM 208-0027	QAL-14	VT-3	NA		0.000	Low Pressure Service Water Pump 3A Support
Class C		14B	O-ISIN4-124A-3.1					0.000	Legs & Pad.
F01.040.012	3-LPSW-STR-A		OM 240-0002	QAL-14	VT-3	NA		0.000	Low Pressure Service Water Strainer 3A Support
Class C		14B	O-ISIN4-124A-3.1					0.000	Legs.
Total F01.040 Items: 6									
Total F01 Items: 44									



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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H03.001.006 Class C	3-03-31-10 Circumferential	03	3-03-31 O-ISIN4-121B-3.3	NDE-600 NDE-940	UT Pipe to Elbow	CS	24.000 1.218		Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.007 Class C	3-03-31-10G Circumferential	03	3-03-31 O-ISIN4-121B-3.3	NDE-600 NDE-940	UT Pipe to Elbow	CS	24.000 1.218		Weld 3-03-31-10 is a Elbow to Pipe weld located on iso 3-03-31.Weld 3-03-31-10G is a Grinnell Subassembly (pipe to elbow) weld located on the opposite end of the elbow from weld 3-03-31-10. Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.008 Class C	3-03-31-8 Circumferential	03	3-03-31 O-ISIN4-121B-3.3	NDE-600 NDE-940	UT Pipe to Elbow	CS	24.000 1.218		Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.012 Class C	3-03-31-3 Circumferential	03	3-03-31 O-ISIN4-121B-3.3	NDE-600 NDE-940	UT Elbow to Pipe	CS	24.000 1.218		Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.013 Class C	3-03-31-3G Circumferential	03	3-03-31 O-ISIN4-121B-3.3	NDE-600 NDE-940	UT Elbow to Pipe	CS	24.000 1.218		Weld 3-03-31-3 is a Elbow to Pipe weld located on iso 3-03-31.Weld 3-03-31-3G is a Grinnell Subassembly (pipe to elbow) weld located on the opposite end of the elbow from weld 3-03-31-3. Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
<b>Total H03.001 Items:</b>		<b>5</b>							
<b>Total H03 Items:</b>		<b>5</b>							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
H04.001.001	3-03-2439B-H5041		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3			0.000	
Class B							
H04.001.002	3-03-0-2439B-H54		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Rigid Support	03	O-ISIN4-121B-3.3			2.000	Inspect with item numbers F01.030.021 and H04.001.002A.
Class C							
H04.001.002A	3-03-0-2439B-H54		3-03-01/sht.1	NDE-35	PT NA	24.000	Calculation No. OSC-512.
	Rigid Support	03	O-ISIN4-121B-3.3			2.000	Inspect with H04.001.002
Class C							Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.003	3-03-0-2439A-H53		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3			0.000	
Class C							
H04.001.004	3-03-0-2439A-H52		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3			0.000	
Class C							
H04.001.005	3-03-0-2401A-H51		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Rigid Support	03	O-ISIN4-121B-3.3			0.000	
Class C							
H04.001.006	3-03-0-2401A-DE001		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Mech Snubber	03	O-ISIN4-121B-3.3			0.000	
Class C							
H04.001.007	3-03-0-2401A-H50		3-03-01/sht.1	QAL-14	VT-3 NA	24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3			0.625	Inspect with item number H04.001.007A.
Class C							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.007A	3-03-0-2401A-H50		3-03-01/sht.1	NDE-35	PT	NA	24.000		Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3				0.625		Inspect along with item number H04.001.007.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.022	3-FPA-27			QAL-14	VT-3	NA	0.000		Rupture Restraint
		03	O-60M				0.000		Inspect along with item number H04.001.022A.
Class C									
H04.001.022A	3-FPA-27			NDE-35	PT	NA	0.000		Rupture Restraint
		03	O-60M				0.000		Inspect along with item number H04.001.022.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.023	3-FPA-25			QAL-14	VT-3	NA	0.000		Rupture Restraint
		03	O-60M				0.000		Inspect along with item number H04.001.023A.
Class C									
H04.001.023A	3-FPA-25			NDE-35	PT	NA	0.000		Rupture Restraint
		03	O-60M				0.000		Inspect along with item number H04.001.023.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.042	3-01A-0-2401B-H19		3-01-01/sht.2	QAL-14	VT-3	NA	36.000		Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1				0.250		Inspect with F01.020.004 and H04.001.042A.
Class B									
H04.001.042A	3-01A-0-2401B-H19		3-01-01/sht.2	NDE-35	PT	NA	36.000		Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1				0.250		Inspect along with item number H04.001.042.
Class B									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use

**CATEGORY ELC, Elective Inspections****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.

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**Total H04.001 Items: 15****Total H04 Items: 15**



Duke Power Company  
Inservice Inspection Management  
Inservice Inspection Plan For:  
Oconee Unit 3 and Keowee Units 1 & 2  
Interval 4  
ISI Outage 2  
Refueling Outage EOC 23

**ISI Examination Listing and Schedule**

Revision 0

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

**DUKE ENERGY CORPORATION**  
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## Pressurizer

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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\*\*\*\* Shell-to-Head; Circumferential \*\*\*\*

B02.011.001	3-PZR-WP76		ISI-OCN3-002	NDE-620	UT	CS	84.000	40387	Pressurizer Upper Head Pc. 5 to Upper Shell
	Circumferential	50	OM-2201-229				4.750	50236	Course Pc. 1.
Class A					Head to Shell				

**Total B02.011 Items: 1**

\*\*\*\* Shell-to-Head; Longitudinal \*\*\*\*

B02.012.001	3-PZR-WP1-1		ISI-OCN3-002	NDE-620	UT	CS	0.000	40387	Pressurizer Upper Shell Course Pc. 1 to Upper Shell
	Longitudinal	50	OM-2201-229				6.188	50236	Course Pc. 1.
Class A					Shell to				
					Shell				

**Total B02.012 Items: 1**

**Total B02 Items: 2**

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

**DUKE ENERGY CORPORATION**  
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## Pressurizer

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### Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS	
**** Nozzle-to-Vessel Welds ****										
B03.110.001	3-PZR-WP15		ISI-OCN3-002	NDE-620	UT	CS		15.250	40394	Pressurizer Surge Nozzle Pc. 8 To Lower Head Pc. 6.
Class A	Circumferential	50	OM 2201-229 B&W 149786E	NDE-640	Nozzle to Head			4.750		
B03.110.002	3-PZR-WP34		ISI-OCN3-002	NDE-620	UT	CS		7.750	40394	Pressurizer Spray Nozzle Pc. 9 to Upper Head Pc. 5.
Class A	Circumferential	50	OM 2201-229 B&W 149787E	NDE-640	Nozzle to Head			4.750		
B03.110.003	3-PZR-WP33-3		ISI-OCN3-002	NDE-620	UT	CS		6.875	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5. Z-W Quadrant.
Class A	Circumferential	50	OM 2201-229 B&W 149788E	NDE-640	Nozzle to Head			4.750		
B03.110.004	3-PZR-WP33-2		ISI-OCN3-002	NDE-620	UT	CS		6.875	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5. X-Y Quadrant.
Class A	Circumferential	50	OM 2201-229 B&W 149788E	NDE-640	Nozzle to Head			4.750		
B03.110.005	3-PZR-WP33-1		ISI-OCN3-002	NDE-620	UT	CS		6.875	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5. W-X Quadrant.
Class A	Circumferential	50	OM 2201-229 B&W 149788E	NDE-640	Nozzle to Head			4.750		
Total B03.110 Items:		5								

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

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## Pressurizer

### Oconee 3

## Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nozzle Inside Radius Section ****									
B03.120.001	3-PZR-WP15	50	ISI-OCN3-002 OM 2201-229 B&W 149786E	TBD	UT	CS	13.250 4.750	40394	Pressurizer Surge Nozzle Pc. 8 to Lower Head Pc. 6. (Inside Radius Section)
Class A					Nozzle to Head				
B03.120.002	3-PZR-WP34	50	ISI-OCN3-002 OM 2201-229 B&W 149787E	TBD	UT	CS	7.750 4.750	40394	Pressurizer Spray Nozzle Pc. 9 to Upper Head Pc. 5. (Inside Radius Section)
Class A					Nozzle to Head				
B03.120.003	3-PZR-WP33-3	50	ISI-OCN3-002 OM 2201-229 B&W 149788E	TBD	UT	CS	6.875 4.750	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5 (Inside Radius Section). Z-W Quadrant.
Class A					Nozzle to Head				
B03.120.004	3-PZR-WP33-2	50	ISI-OCN3-002 OM 2201-229 B&W 149788E	TBD	UT	CS	6.875 4.750	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5 (Inside Radius Section). X-Y Quadrant.
Class A					Nozzle to Head				
B03.120.005	3-PZR-WP33-1	50	ISI-OCN3-002 OM 2201-229 B&W 149788E	TBD	UT	CS	6.875 0.750	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5 (Inside Radius Section). W-X Quadrant.
Class A					Nozzle to Head				
Total B03.120 Items:		5							
Total B03 Items:		10							

### **CATEGORY B-F, Pressure Retaining** **Dissimilar Metal Welds In Vessel Nozzles**

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## Pressurizer

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
**** NPS 4 or Larger; Nozzle-to-Safe End Butt Welds ****										
B05.040.001	3-PZR-WP23		ISI-OCN3-002	NDE-35	PT	SS-CS	10.900			Pressurizer Surge Nozzle Pc. 8 to Surge Nozzle
	Circumferential	50					1.063			Safe End Pc. 37.
Class A	Term end				Nozzle to					
	Dissimilar				Safe End					
B05.040.001A	3-PZR-WP23		ISI-OCN3-002	PDI-UT-10	UT	SS-CS	10.900	40414		Pressurizer Surge Nozzle Pc. 8 to Surge Nozzle
	Circumferential	50					1.063	40354		Safe End Pc. 37.
Class A	Term end				Nozzle to					
	Dissimilar				Safe End					
B05.040.002	3-PZR-WP45		ISI-OCN3-002	NDE-35	PT	CS-Inconel	4.000			Pressurizer Spray Nozzle Pc. 9 to Spray Nozzle
	Circumferential	50					0.750			Safe End Pc. 45.
Class A	Term end				Nozzle to					
	Dissimilar				Safe End					
B05.040.002A	3-PZR-WP45		ISI-OCN3-002	PDI-UT-10	UT	CS-Inconel	4.000	50373		Pressurizer Spray Nozzle Pc. 9 to Spray Nozzle
	Circumferential	50					0.750			Safe End Pc. 45.
Class A	Term end				Nozzle to					
	Dissimilar				Safe End					
Total B05.040 Items:		4								
Total B05 Items:		4								

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****							
B06.070.001	3-PZR-MW-FLANGE		OM 201-1026	QAL-13	VT-1 CS	28.000	Pressurizer Manway Flange Surface. Examination includes 1"annular surface surrounding each stud. Inspect when connection is disassembled. * Do not count in totals.
		50	B&W 149793E			0.000	
Class A							
Total B06.070 Items:							
1							

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

**DUKE ENERGY CORPORATION**  
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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****									
B06.190.001	3-RCP-3A1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.002	3-RCP-3A2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.003	3-RCP-3B1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.004	3-RCP-3B2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
Total B06.190 Items:		4							
Total B06 Items:		5							

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

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## Piping

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts, Studs, and Nuts ****</b>									
B07.050.002	3-PZR-RC66-STUDS		OM-2201-0229	QAL-13	VT-1	CS		1.125	Pressurizer Relief Valve 3RC-66 Inlet Flange
		50	O-ISIN4-100A-3.2					0.000	Bolting, W-Z Quadrant.
Class A									8 Studs and 16 Nuts, Length = 8.750". Examine all studs and nuts.
B07.050.003	3-PZR-RC67-STUDS		OM-2201-0229	QAL-13	VT-1	CS		1.125	Pressurizer Relief Valve 3RC-67 Inlet Flange
		50	O-ISIN4-100A-3.2					0.000	Bolting, W-X Quadrant.
Class A									8 Studs and 16 Nuts, Length = 8.750". Examine all studs and nuts.
B07.050.004	3-PZR-RC68-STUDS		OM-2201-0229	QAL-13	VT-1	CS		1.125	Pressurizer Relief Valve 3RC-68 Inlet Flange
		50	O-ISIN4-100A-3.2					0.000	Bolting, X-Y Quadrant.
Class A									8 Studs and 16 Nuts, Length = 8.750". Examine all studs and nuts.
<b>Total B07.050 Items: 3</b>									



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

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## Valves

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.070.005	3-53A-LP47-STUDS		OM-245-001	QAL-13	VT-1	NA		1.000	LPI 10" Valve 3LP-47 Bolting. Inspect one of the following valves: 3LP-47 or 3LP-48. Examine all studs and nuts.
		53A	O-ISIN4-102A-3.2					0.000	
Class A									
Total B07.070 Items:		1							

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****							
B07.080.001	3-RPV-CRD-HOUSING		B&W 149902E	QAL-13	VT-1 NA	0.000	CRD Housing includes bolts (8 bolts per connection) and housing rings (1 pair per housing). Inspect only if disassembled.
		50	B&W 149919E			0.000	
Class A							
Total B07.080 Items:		1					
Total B07 Items:		5					

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

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NPS 4 or Larger

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## **Inservice Inspection Plan for Interval 4 Outage 2**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>									
B09.011.006	3-PIA1-4		ISI-OCN3-007	NDE-600	UT	CS	33.500		Pump 3A1 Suction Piping. Pipe Pc. 63 to Elbow Pc. 62.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Stress weld				Pipe to Elbow				
B09.011.006A	3-PIA1-4		ISI-OCN3-007	NDE-25	MT	CS	33.500		Pump 3A1 Suction Piping. Pipe Pc. 63 to Elbow Pc. 62.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Stress weld				Pipe to Elbow				
B09.011.008	3-PIA2-1		ISI-OCN3-008	NDE-600	UT	CS	33.500		Pump 3A2 Suction Piping. SG3A Outlet Nozzle to Pipe Pc. 67.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Term end				Nozzle to Pipe				
B09.011.008A	3-PIA2-1		ISI-OCN3-008	NDE-25	MT	CS	33.500		Pump 3A2 Suction Piping. SG3A Outlet Nozzle to Pipe Pc. 67.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Term end				Nozzle to Pipe				
B09.011.010	3-PIA2-7		ISI-OCN3-008	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3A2 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55. Perform UT from the Pipe Side and Safe End Side.
	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	
Class A	Dissimilar				Pipe to Safe End				
B09.011.010A	3-PIA2-7		ISI-OCN3-008	NDE-35	PT	SS-CS	33.500		Pump 3A2 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Dissimilar				Pipe to Safe End				
B09.011.040	3-53A-15-47		3-53A-15 (2)	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Pipe to Elbow				
B09.011.040A	3-53A-15-47		3-53A-15 (2)	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Pipe to Elbow				

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

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## NPS 4 or Larger

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## Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.041	3-53A-15-50		3-53A-15 (2)	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.041A	3-53A-15-50		3-53A-15 (2)	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.058	3-PSP-2		ISI-OCN3-016	NDE-600	UT	SS	4.000		Pressurizer Spray Piping. Pipe Pc. 90 to Elbow Pc. 91.
	Circumferential	50	O-ISIN4-100A-3.2				0.438		
Class A	Stress weld				Pipe to Elbow				
B09.011.058A	3-PSP-2		ISI-OCN3-016	NDE-35	PT	SS	4.000		Pressurizer Spray Piping. Pipe Pc. 90 to Elbow Pc. 91.
	Circumferential	50	O-ISIN4-100A-3.2				0.438		
Class A	Stress weld				Pipe to Elbow				
Total B09.011 Items:		12							

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

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**Less Than NPS 4**

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## **Inservice Inspection Plan for Interval 4 Outage 2**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>									
B09.021.001	3-50-20-9		3-50-20	NDE-35	PT	SS-Inconel	1.500		
	Circumferential	50	O-ISIN4-100A-3.1				0.281		
Class A	Dissimilar					Elbow to Nozzle			
B09.021.006	3RC-259-5		3RC-259	NDE-35	PT	SS	1.500		
	Circumferential	50	O-ISIN4-100A-3.2				0.281		This weld was listed previously as 3-50-38-26 on iso 3-50-38 until it was deleted and welded back as 3RC-259-5 on iso 3RC259.
Class A	Stress weld					Tee to Pipe			
B09.021.036	3HP-252-4A		3HP-252	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		This weld was listed previously as 3-51A-62-4A on iso 3-51A-62 until it was transferred to iso 3HP-252.
Class A						Pipe to Flange			
B09.021.037	3HP-252-5		3HP-252	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		This weld was listed previously as 3-51A-62-5 on iso 3-51A-62 until it was transferred to iso 3HP-252.
Class A						Pipe to Elbow			
B09.021.039	3HP-241-15		3HP-241	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		This weld was listed previously as 3-51A-63-15 until iso 3-51A -63 was redrawn.
Class A						Elbow to Pipe			
B09.021.041	3HP-241-27		3HP-241	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		This weld was listed previously as 3-51A-63-27 until iso 3-51A -63 was redrawn.
Class A						Elbow to Pipe			
B09.021.042	3HP-241-28		3HP-241	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		This weld was listed previously as 3-51A-63-28 until iso 3-51A -63 was redrawn.
Class A						Pipe to Elbow			
B09.021.055	3RC-210-32		3RC-210	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		
Class A	Stress weld					Valve 3HP-126 to Valve 3HP-486			

**CATEGORY B-J, Pressure Retaining Welds In Piping****DUKE ENERGY CORPORATION  
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11/17/2004****Less Than NPS 4****Oconee 3****Inservice Inspection Plan for Interval 4 Outage 2**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.021.057	3RC-213-27		3RC-213	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		
Class A	Stress weld				Pipe to				Valve 3HP-152
B09.021.058	3RC-213-28		3RC-213	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		
Class A	Stress weld				Valve 3HP-152 to				Valve 3HP-489

**Total B09.021 Items: 10**

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

**DUKE ENERGY CORPORATION**  
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## **Branch Pipe Connection Welds**

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## Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** NPS 4 or Larger ****</b>									
B09.031.001	3-PHB-16		ISI-OCN3-006	NDE-600	UT	CS		23.000	Steam Generator 3B Hot Leg to Reactor Vessel. Pipe Pc. 23 to Surge Nozzle Pc. 25. NPS of the PZR Surge Nozzle = 10.75" Diameter and 1.00" Thickness. The NPS of the branch line is 10".
	Branch	50	O-ISIN4-100A-3.1					2.875	
Class A	Stress weld				Pipe to Nozzle				
B09.031.001A	3-PHB-16		ISI-OCN3-006	NDE-25	MT	CS		23.000	Steam Generator 3B Hot Leg to Reactor Vessel. Pipe Pc. 23 to Surge Nozzle Pc. 25. NPS of the PZR Surge Nozzle = 10.75 " Diameter and 1.00 " Thickness. The NPS of the branch line is 10 ".
	Branch	50	O-ISIN4-100A-3.1					2.875	
Class A	Stress weld				Pipe to Nozzle				
<b>Total B09.031 Items:</b>		<b>2</b>							
<b>**** Less Than NPS 4 ****</b>									
B09.032.009	3LP-135-1		3LP-135	NDE-35	PT	SS		3.000	Inspect pipe to pipe Branch weld (If Accessable)and the reinforcing collar welds. This weld was listed previously as 3-53A-37-1 until iso 3-51A-37 was redrawn.
	Branch	53A	O-ISIN4-102A-3.1					0.438	
Class A					Pipe to Pipe				
<b>Total B09.032 Items:</b>		<b>1</b>							

**CATEGORY B-J, Pressure Retaining Welds In  
Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Socket Welds**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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B09.040.007	3-51A-142-29		3-51A-142	NDE-35	PT SS	2.000	
	Socket	51A	O-ISIN4-101A-3.1			0.344	
	Class A				Pipe to Valve 3HP-2		

Total B09.040 Items:	1
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Total B09 Items:	26
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## **CATEGORY B-K, Welded Attachments For Vessels, Piping, Pumps, And Valves**

**DUKE ENERGY CORPORATION**  
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## Piping

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## Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
B10.020.011	3-51A-0-2478A-H3C		3-51-14/sht.1	NDE-35	PT	NA		2.500	Calculation No. OSC-1660-01. Inspect with
	Rigid Restraint	51A	O-ISIN4-101A-3.1					0.250	F01.011.013.
Class A									
B10.020.022	3-53A-0-2479A-H23C		3-53-09/sht.2	NDE-35	PT	NA		1.500	Calculation No. OSC-1343-06 Vol.A. Inspect with
	Rigid Support	53A	O-ISIN4-100A-3.2					0.250	F01.010.022.
Class A									
Total B10.020 Items: 2									
Total B10 Items: 2									

**CATEGORY B-L-2, Pump Casings****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Pump Casing ****									
B12.020.001	3RCP-3A1-CASING	50	ISI-OCN3-007	QAL-14	VT-3	SS	68.000	0.000	Reactor Coolant Pump 3A1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057 OM-1201D-0005						
B12.020.002	3RCP-3A2-CASING	50	ISI-OCN3-008	QAL-14	VT-3	SS	68.000	0.000	Reactor Coolant Pump 3A2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057 OM-1201D-0005						
B12.020.003	3RCP-3B1-CASING	50	ISI-OCN3-009	QAL-14	VT-3	SS	68.000	0.000	Reactor Coolant Pump 3B1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057 OM-1201D-0005						
B12.020.004	3RCP-3B2-CASING	50	ISI-OCN3-010	QAL-14	VT-3	SS	68.000	0.000	Reactor Coolant Pump 3B2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057 OM-1201D-0005						
Total B12.020 Items:		4							

### CATEGORY B-M-2, Valve Body

**DUKE ENERGY CORPORATION**  
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## Valves

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Valve Body, Exceeding NPS 4 ****									
B12.050.001	3-53A-CF-11		OM-245-001	QAL-14	VT-3	SS		14.000	A-Side Core Flood Valve Body 3CF-11 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.3					0.000	
B12.050.002	3-53A-CF-12		OM-245-001	QAL-14	VT-3	SS		14.000	A-Side Core Flood Valve Body 3CF-12 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.3					0.000	
B12.050.003	3-53A-CF-13		OM-245-001	QAL-14	VT-3	SS		14.000	B-Side Core Flood Valve Body 3CF-13 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.3					0.000	
B12.050.004	3-53A-CF-14		OM-245-001	QAL-14	VT-3	SS		14.000	B-Side Core Flood Valve Body 3CF-14 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.3					0.000	
B12.050.005	3-53A-LP-47		OM-245-001	QAL-14	VT-3	SS		10.000	B-Side LPI Valve Body 3LP-47 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.2					0.000	
B12.050.006	3-53A-LP-48		OM-245-001	QAL-14	VT-3	SS		10.000	B-Side LPI Valve Body 3LP-48 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.2					0.000	
B12.050.007	3-53A-LP-1		OM-201-165	QAL-14	VT-3	SS		12.000	Decay Heat Suction Valve Body 3LP-1 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A		53	O-ISIN4-102A-3.1					0.000	

**CATEGORY B-M-2, Valve Body****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
B12.050.008	3-53A-LP-2		OM-201-165	QAL-14	VT-3 SS	12.000	Decay Heat Suction Valve Body 3LP-2 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
		53	O-ISIN4-102A-3.1			0.000	
Class A							
Total B12.050 Items:		8					
Total B12 Items:		12					

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

DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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**Reactor Vessel**

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	3-RPV-INT-SUR		ISI-OCN3-001	See Com	VT-3 SS	0.000 0.000	Reactor Vessel Interior. Procedure # WDI-STD-088.

Class A

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**Total B13.010 Items: 1**

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**Total B13 Items: 1**

**CATEGORY C-C, Welded Attachments For  
Vessels, Piping, Pumps, And Valves**DUKE ENERGY CORPORATION  
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11/17/2004**Pressure Vessels**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

C03.010.001	3SGA-WG84/87-WX		OM 2201-1451	NDE-25	MT	CS	0.000		Steam Generator 3A Feedwater Header Attachment
		03	O-ISIN4-121B-3.3				1.000		in WX Quadrant. Attachment closest to W-Axis.
	Class B		B&W-149824E		Pc. 152 & 153 to				Shell

**Total C03.010 Items: 1**

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

**DUKE ENERGY CORPORATION**  
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## Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.020.001	3-01A-0-2480A-H1A	01A	3-01-08/sht.1	NDE-35	PT	NA	26.000		Calculation No. OSC-507. Inspect with F01.022.009.
Class B	Spring Hgr		O-ISIN4-122A-3.1 O-2490A-3(S)				1.500		
C03.020.012	3-03-0-2481A-H16A	03	3-03-07/sht.1	NDE-35	PT	NA	24.000		Calculation No. OSC-1335. Inspect with F01.021.011.
Class B	Rigid Restraint		O-ISIN4-121B-3.3 O-2490B-3(S)				1.000		
C03.020.053	3-53B-2-0-2435B-SR26	53B	3-53-01/sht.1	NDE-35	PT	NA	14.000		Calculation No. OSC-549. Inspect with F01.021.055.
Class B	Rigid Restraint		O-ISIN4-102A-3.1 O-3AB-35301-01				0.187		
C03.020.057	3-53B-5-0-2444-H94	53B	3-53-04/sht.2	NDE-35	PT	NA	10.000		Calculation No. OSC-551. Inspect with F01.020.072 and F01.020.072.
Class B	Rigid Support		O-ISIN4-102A-3.2				0.750		
C03.020.064	3-54A-3-0-2439C-H5	54A	3-54-03/sht.2	NDE-35	PT	NA	8.000		Calculation No. OSC-556. Inspect with F01.020.089.
Class B	Rigid Support		O-ISIN4-103A-3.1				1.000		
Total C03.020 Items:		5							

**CATEGORY C-C, Welded Attachments For  
Vessels, Piping, Pumps, And Valves****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

C03.030.001	3-HPI-PU-A		OM-1201-1121	NDE-35	PT SS	0.000	High Pressure Injection Pump 3A. Reference
		51A	O-ISIN4-101A-3.3			2.000	manual OM 1201-1121 or OM 2201-597.
	Class B		OM 201-1704		Support Lugs to Casing		

**Total C03.030 Items: 1****Total C03 Items: 7**



**CATEGORY C-D, Pressure Retaining Bolting  
Greater Than 2 In. In Diameter**DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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11/17/2004**Valves**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts and Studs ****									
C04.040.001	3-MS-104-STUD		OM 200-195	PDI-UT-4	UT	CS	2.250	40417	Main Steam Stop Valve 3MS-104.
		01A	O-ISIN4-122B-3.1				0.000		
	Class B		3-01A-27						

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Total C04.040 Items: 1

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Total C04 Items: 1

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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**Piping Welds  $\geq$  3/8 in. Nominal Wall Thickness**  
**for Piping > NPS 4**

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Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>*** Circumferential Weld ***</b>									
C05.011.012	3LP-132-19		3LP-132	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B					Pipe to Elbow				
C05.011.012A	3LP-132-19		3LP-132	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B					Pipe to Elbow				
C05.011.015	3LP-132-23		3LP-132	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B					Reducer to Valve 3LP-17				
C05.011.015A	3LP-132-23		3LP-132	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B					Reducer to Valve 3LP-17				
C05.011.018	3LP-134-101		3LP-134	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B			O-ISIN4-102A-3.3		Elbow to Pipe				
C05.011.018A	3LP-134-101		3LP-134	NDE-35	PT	SS	10.000		Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B			O-ISIN4-102A-3.3		Elbow to Pipe				

Total C05.011 Items:

6

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

DUKE ENERGY CORPORATION  
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Piping Welds > 1/5 in. Nom Wall for Piping >=

Oconee 3

NPS 2 and <= NPS 4

Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
*** Circumferential Weld ***									
C05.021.002	3-51A-101-2		3-51A-101	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.3	See Com			0.375		
Class B					Pipe to Elbow				
C05.021.002A	3-51A-101-2		3-51A-101	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.3				0.375		
Class B					Pipe to Elbow				
C05.021.011	3-51A-118-7		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Elbow to Pipe				
C05.021.011A	3-51A-118-7		3-51A-118	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Pipe				
C05.021.012	3-51A-119-1		3-51A-119	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Pipe to Tee				
C05.021.012A	3-51A-119-1		3-51A-119	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Pipe to Tee				
C05.021.022	3-51A-121-4		3-51A-121	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Elbow to Pipe				
C05.021.022A	3-51A-121-4		3-51A-121	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Pipe				

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

**DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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**Piping Welds > 1/5 in. Nom Wall for Piping >= NPS 2 and <= NPS 4**

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.030	3-51A-50-36		3-51A-50	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Pipe to Elbow		0.237		
C05.021.030A	3-51A-50-36		3-51A-50	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Pipe to Elbow		0.237		
C05.021.033	3-51A-52-2A		3-51A-52	NDE-600	UT	SS	3.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Elbow to Pipe		0.438		
C05.021.033A	3-51A-52-2A		3-51A-52	NDE-35	PT	SS	3.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Elbow to Pipe		0.438		
C05.021.034	3-51A-52-29		3-51A-52	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Pipe to Valve 3HP-148		0.531		
C05.021.034A	3-51A-52-29		3-51A-52	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Pipe to Valve 3HP-148		0.531		
C05.021.048	3-51A-59-87		3-51A-59	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Tee to Elbow		0.674		
C05.021.048A	3-51A-59-87		3-51A-59	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Tee to Elbow		0.674		
C05.021.061	3-51A-87-29		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Tee		0.531		

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.061A	3-51A-87-29		3-51A-87	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Pipe to Tee				
C05.021.072	3-51A-101-3		3-51A-101	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.3	See Com			0.375		
Class B					Pipe to Elbow				
C05.021.072A	3-51A-101-3		3-51A-101	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.3				0.375		
Class B					Pipe to Elbow				
C05.021.077	3-51A-119-2		3-51A-119	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Tee to Pipe				
C05.021.077A	3-51A-119-2		3-51A-119	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Tee to Pipe				
C05.021.082	3-51A-141-23		3-51A-141	NDE-600	UT	SS	2.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.344		
Class B					Pipe to Reducer				
C05.021.082A	3-51A-141-23		3-51A-141	NDE-35	PT	SS	2.000		
	Circumferential	51A	O-ISIN4-101A-3.1				0.344		
Class B					Pipe to Reducer				
C05.021.087	3-51A-59-14		3-51A-59	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
Class B					Elbow to Pipe				
C05.021.087A	3-51A-59-14		3-51A-59	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
Class B					Elbow 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 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.092	3-51A-67-2		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
					Elbow to Pipe				
C05.021.092A	3-51A-67-2		3-51A-67	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
					Elbow to Pipe				
C05.021.097	3-51A-87-4		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Pipe to Elbow				
C05.021.097A	3-51A-87-4		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Pipe to Elbow				
C05.021.098	3-51A-87-57		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Elbow to Pipe				
C05.021.098A	3-51A-87-57		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Elbow to Pipe				
Total C05.021 Items:		32							

**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS Or High Alloy Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Socket Welds**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.030.003	3-51B-36-68		3-51B-36	NDE-35	PT	SS	2.000		
	Socket	51B	O-ISIN4-101A-3.2				0.154		
	Class B					Pipe to Valve 3HP-136			
C05.030.006	3HP-436-16		3HP-436	NDE-35	PT	SS	4.000		HPI Pump 3C Inlet Nozzle. This weld was listed
	Socket	51A	O-ISIN4-101A-3.3				0.237		previously as 3-51A-50-16 on iso 3-51A-50 until it
	Class B					Elbow to Flange			was transferred to iso 3HP-436.
Total C05.030 Items:		2							

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

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

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Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.051.010	3-01A-23-11		3-01A-23	NDE-600	UT	CS	24.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential Term end	01A	O-ISIN4-122A-3.1	See Com		Reducer to Nozzle S/G 3A	0.969		
C05.051.010A	3-01A-23-11		3-01A-23	NDE-25	MT	CS	24.000		
Class B	Circumferential Term end	01A	O-ISIN4-122A-3.1			Reducer to Nozzle S/G 3A	0.969		
C05.051.012	3-01A-24-10		3-01A-24	NDE-600	UT	CS	24.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential Term end	01A	O-ISIN4-122A-3.1	See Com		Reducer to Nozzle S/G 3B	0.969		
C05.051.012A	3-01A-24-10		3-01A-24	NDE-25	MT	CS	24.000		
Class B	Circumferential Term end	01A	O-ISIN4-122A-3.1			Reducer to Nozzle S/G 3B	0.969		
C05.051.028	3LPS-520-2		3LPS-520	NDE-600	UT	CS	8.000	See Com	Reference Request for Note:Weld 3-14B-116-38 was inspected in outage 2 for item # C05.051.028 and since then has been deleted and weld 3LPS-520-2 took its place. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com		Valve 3LPS-19 to Elbow	0.500		
C05.051.028A	3LPS-520-2		3LPS-520	NDE-25	MT	CS	8.000		Note:Weld 3-14B-116-38 was inspected in outage 2 for item # C05.051.028A and since then has been deleted and weld 3LPS-520-2 took its place.
Class B	Circumferential	14B	O-ISIN4-124B-3.2			Valve 3LPS-19 to Elbow	0.500		
C05.051.036	3LPS-477-34A		3LPS-477	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-34A until Iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com		Pipe to Pipe	0.500		



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

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

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.036A	3LPS-477-34A		3LPS-477	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-34A until Iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
Class B					Pipe to Pipe				
C05.051.042	3LPS-475-60		3LPS-475	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-60 until Iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Flange				
C05.051.042A	3LPS-475-60		3LPS-475	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-60 until iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
Class B					Pipe to Flange				
C05.051.047	3CC-131-6		3CC-131	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-55-39-10 until iso 3-55-39 was redrawn.
	Circumferential	55	O-ISIN4-144A-3.2	See Com			0.500		Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Elbow				
C05.051.047A	3CC-131-6		3CC-131	NDE-25	MT	CS	8.000		This weld was listed previously as 3-55-39-10 until iso 3-55-39 was redrawn.
	Circumferential	55	O-ISIN4-144A-3.2				0.500		
Class B					Pipe to Elbow				
C05.051.048	3MS-120-33		3MS-120	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	01A	O-ISIN4-122A-3.2	See Com			0.432		
Class B					Elbow to Valve 3MS-33				
C05.051.048A	3MS-120-33		3MS-120	NDE-25	MT	CS	6.000		
	Circumferential	01A	O-ISIN4-122A-3.2				0.432		
Class B					Elbow to Valve 3MS-33				
C05.051.049	3MS-117-36		3MS-117	NDE-600	UT	CS	8.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	01A	O-ISIN4-122A-3.3	See Com			0.500		
Class B					Pipe to Reducer				



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

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**Piping**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>*** Welded Attachments ***</b>							
D01.020.011	3-02A-0-2403A-H4		3-01A-04/sht.2	QAL-13	VT-1 NA	6.000	Calculation No. OSC-510. Inspect with F01.030.011.
	Rigid Support	02A	O-ISIN4-122A-3.4			0.500	
Class C			O-3TB-301A04-02				
D01.020.072	3-14B-6-0-2438B-SR9		3-03A-13/sht.2	QAL-13	VT-1 NA	6.000	Calculation No. OSC-1224-23. Inspect with
	Rigid Restraint	14B	O-ISIN4-121D-1.2			1.000	F01.031.083.
Class C							
D01.020.075	3-14B-1-0-2437A-SR108		3-14-05/sht.1	QAL-13	VT-1 NA	20.000	Calculation No. OSC-533.
	Rigid Restraint	14B	O-ISIN4-124A-3.1			2.000	
Class C							
D01.020.076	3-14B-1-0-2439B-H23		3-14-06/sht.2	QAL-13	VT-1 NA	8.000	Calculation No. OSC-535.
	Rigid Restraint	14B	O-ISIN4-124B-3.2			1.500	
Class C							
D01.020.101	1-WL-100A-K0003		K-ISIN4-100A-1.1	QAL-13	VT-1 NA	8.000	Calc.# KC-0111,Page 30
	Rigid Support	WL				0.500	Problem # 0-WL-01 sht. 1 of 1. Keowee Unit 1.
Class C							Inspect with F01.030.131.
<hr/>							
<b>Total D01.020 Items:</b>		<b>5</b>					
<b>Total D01 Items:</b>		<b>5</b>					

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## Class 1 Piping Supports

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 2

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Category A, One-Directional ****</b>									
F01.010.022	3-53A-0-2479A-H23C		3-53-09/sht.2	QAL-14	VT-3	NA	1.500		Calculation No. OSC-1343-06 Vol.A. Inspect with
	Rigid Support	53A	O-ISIN4-100A-3.2				0.250		B10.020.022.
	Class A		O-3RB-35309-02						
<b>Total F01.010 Items: 1</b>									
<b>**** Category B, Multi-Directional ****</b>									
F01.011.013	3-51A-0-2478A-H3C		3-51-14/sht.1	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1660-01. Inspect with
	Rigid Restraint	51A	O-ISIN4-101A-3.1				0.250		B10.020.011.
	Class A								
F01.011.026	3-53A-0-2481A-H28C		3-53-09/sht.2	QAL-14	VT-3	NA	1.500		Calculation No. OSC-1343-06 Vol.A.
	Rigid Restraint	53A	O-ISIN4-100A-3.2				0.250		
	Class A		O-3RB-35309-02						
<b>Total F01.011 Items: 2</b>									
<b>**** Category C, Thermal Movement ****</b>									
F01.012.021	3-53A-0-2478A-DE002		3-53-07/sht.2	QAL-14	VT-3	NA	14.000		Calculation No. OSC-1338 page no. 6(1)8.
	Spring Hgr	53A	O-ISIN4-102A-3.3				0.000		
	Class A		0-2492D-2(S)						
F01.012.022	3-53A-0-2479A-H1A		3-53-07/sht.2	QAL-14	VT-3	NA	14.000		Calculation No. OSC-1338
	Spring Hgr	53A	O-ISIN4-102A-3.3				1.500		page no. 6(1)8.
	Class A		0-2492D-2(S)						
<b>Total F01.012 Items: 2</b>									

**CATEGORY F-A, Supports**

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**Class 2 Piping Supports**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\* Category A, One-Directional \*\*\***

F01.020.001	3-01A-0-2401B-R13		3-01-01/sht.1	QAL-14	VT-3	CS	36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1				0.000	Inspect with item number H04.001.047.
Class B								
F01.020.013	3-03-0-2479A-H1B		3-03-06/sht.1	QAL-14	VT-3	NA	14.000	Calculation No. OSC-1335.
	Rigid Support	03	O-ISIN4-121B-3.3				0.280	
Class B			O-2490B-2(S)					
F01.020.015	3-03A-2439A-H5586		3-03A-05/sht.1	QAL-14	VT-3	NA	6.000	Calculation No. OSC-517.
	Rigid Support	03A	O-ISIN4-121D-3.1				0.000	
Class B								
F01.020.041	3-51B-1-0-2436G-H103		3-51-01/sht.4	QAL-14	VT-3	NA	2.500	Calculation No. OSC-538 Part "A".
	Rigid Support	51B	O-ISIN4-101A-3.2				0.000	
Class B								
F01.020.044	3-51A-3-0-2438A-H500		3-51-06/sht.1	QAL-14	VT-3	NA	4.000	Calculation No. OSC-543.
	Rigid Support	51A	O-ISIN4-101A-3.1				0.125	
Class B								
F01.020.045	3-51B-2436G-DE072		3-51-01/sht.2	QAL-14	VT-3	NA	2.500	Calculation No. OSC-538 Part "A".
	Rigid Support	51B	O-ISIN4-101A-3.2				0.000	
Class B								
F01.020.050	3-51B-3-0-2436G-H58		3-51-01/sht.2	QAL-14	VT-3	NA	3.000	Calculation No. OSC-538 Part "A".
	Rigid Support	51B	O-ISIN4-101A-3.2				0.000	
Class B								
F01.020.061	3-53B-2-0-2436C-H141		3-51-02/sht.2	QAL-14	VT-3	NA	8.000	Calculation No. OSC-539.
	Rigid Support	53B	O-ISIN4-102A-3.1				0.000	
Class B			O-3AB-35102-02					

**CATEGORY F-A, Supports**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.062	3-53B-2-0-2436C-H144		3-51-02/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-539.
	Rigid Support	53B	O-ISIN4-102A-3.1					0.000	
Class B			O-3AB-35102-02						
F01.020.064	3-53B-2-0-2435B-H29		3-53-01/sht.1	QAL-14	VT-3	NA		14.000	Calculation No. OSC-549.
	Rigid Support	53B	O-ISIN4-102A-3.1					0.000	
Class B			O-3AB-35301-01						
F01.020.066	3-53B-2-0-2435B-H21		3-53-01/sht.2	QAL-14	VT-3	NA		14.000	Calculation No. OSC-549.
	Rigid Support	53B	O-ISIN4-102A-3.1					0.187	
Class B			O-3AB-35301-02						
F01.020.071	3-53B-5-0-2435B-SR34		3-53-03/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-550.
	Rigid Support	53B	O-ISIN4-102A-3.2					0.000	
Class B									
F01.020.072	3-53B-5-0-2444-H94		3-53-04/sht.2	QAL-14	VT-3	NA		10.000	Calculation No. OSC-551. Inspect with C03.020.057.
	Rigid Support	53B	O-ISIN4-102A-3.2					0.750	
Class B									
F01.020.084	3-54A-3-0-2436D-H47		3-54-01/sht.1	QAL-14	VT-3	NA		8.000	Calculation No. OSC-554.
	Rigid Support	54A	O-ISIN4-103A-3.1					0.125	
Class B									
F01.020.089	3-54A-3-0-2439C-H5		3-54-03/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-556. Inspect with
	Rigid Support	54A	O-ISIN4-103A-3.1					1.000	C03.020.064.
Class B									
Total F01.020 Items:		15							
**** Category B, Multi-Directional ****									
F01.021.011	3-03-0-2481A-H16A		3-03-07/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-1335. Inspect with
	Rigid Restraint	03	O-ISIN4-121B-3.3					1.000	C03.020.012..
Class B			O-2490B-3(S)						

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F01.021.012	3-03A-1-0-2439A-NPS-H3		3-03A-05/sht.1	QAL-14	VT-3	NA	6.000		Calculation No. OSC-517. This S/R listed as 3-NPS-03A-1-0-2439A-H3 on the drawing.
Class B	Rigid Restraint	03A	O-ISIN4-121D-3.1				0.000		
F01.021.021	3-14B-0-2439A-DE082		3-03A-05/sht.1	QAL-14	VT-3	NA	6.000		Calculation No. OSC-517.
Class B	Rigid Restraint	14B	O-ISIN4-121D-3.1				0.000		
F01.021.054	3-51B-2436G-DE005		3-51-01/sht.5	QAL-14	VT-3	NA	2.500		Calculation No. OSC-538 Part "A".
Class B	Rigid Restraint	51B	O-ISIN4-101A-3.2				0.000		
F01.021.065	3-53B-2-0-2435B-SR26		3-53-01/sht.1	QAL-14	VT-3	NA	14.000		Calculation No. OSC-549.
Class B	Rigid Restraint	53B	O-ISIN4-102A-3.1 O-3AB-35301-01				0.187		
F01.021.082	3-54A-3-0-2436D-H48		3-54-01/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-554.
Class B	Rigid Restraint	54A	O-ISIN4-103A-3.1				1.000		
Total F01.021 Items:		6							
**** Category C, Thermal Movement ****									
F01.022.003	3-01A-0-2480A-H9B		3-01-07/sht.1	QAL-14	VT-3	NA	26.000		Calculation No. OSC-1334-06.
Class B	Constant Support	01A	O-ISIN4-121B-3.3 0-2490A-2(S)				1.000		
F01.022.005	3-01A-0-2401B-H5		3-01-01/sht.1	QAL-14	VT-3	CS	36.000		Calculation No. OSC-506. Inspect with item number H04.001.028.
Class B	Spring Hgr	01A	O-ISIN4-122A-3.1				0.000		
F01.022.009	3-01A-0-2480A-H1A		3-01-08/sht.1	QAL-14	VT-3	NA	26.000		Calculation No. OSC-507. Inspect with C03.020.001.
Class B	Spring Hgr	01A	O-ISIN4-122A-3.1 O-2490A-3(S)				1.500		

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F01.022.012	3-03A-0-2480A-H1B Constant Support	03A	3-03A-14/sht.1 O-ISIN4-121D-3.1 O-3RB-303A14-01	QAL-14	VT-3 NA	6.000 0.000	Calculation No. OSC-1224-18.
Class B							
F01.022.021	3-51A-6-0-2435D-H128 Spring Hgr	51A	3-51-02/sht.4 O-ISIN4-101A-3.3 O-3AB-35102-04	QAL-14	VT-3 NA	6.000 0.000	Calculation No. OSC-539.
Class B							
F01.022.024	3-53B-5-0-2444-H19 Spring Hgr	53B	3-53-03/sht.3 O-ISIN4-102A-3.2	QAL-14	VT-3 NA	10.000 0.125	Calculation No. OSC-550.
Class B							
F01.022.034	3-53B-5-0-2435B-H12 Spring Hgr	53B	3-53-03/sht.1 O-ISIN4-102A-3.2	QAL-14	VT-3 NA	10.000 0.000	Calculation No. OSC-550.
Class B							
Total F01.022 Items:		7					



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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.030.011	3-02A-0-2403A-H4		3-01A-04/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-510. Inspect with D01.020.011.
Class C	Rigid Support	02A	O-ISIN4-122A-3.4 O-3TB-301A04-02					0.500	
F01.030.025	3-03A-2401A-DE010		3-03A-06/sht.3	QAL-14	VT-3	NA		6.000	Calculation No. OSC-519.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.000	
F01.030.068	3-07A-6-0-2400A-H81		3-07-05/sht.2	QAL-14	VT-3	NA		20.000	Calculation No. OSC-1211.
Class C	Rigid Support	07A	O-ISIN4-121A-3.8					0.000	
F01.030.131	1-WL-100A-K0003		K-ISIN4-100A-1.1	QAL-14	VT-3	NA		8.000	Calc.# KC-0111,Page 30
Class C	Rigid Support	WL						0.500	Problem # 0-WL-01 sht. 1 of 1. Keowee Unit 1. Inspect with D01.020.101.
F01.030.133	2-WL-100A-K0024		K-ISIN4-100A-2.1	QAL-14	VT-3	NA		8.000	Calc.# KC-0111,Page 30
Class C	Rigid Support	WL						0.500	Problem # 0-WL-01 sht. 1 of 1. Keowee Unit 2.
Total F01.030 Items:		5							
**** Category B, Multi-Directional ****									
F01.031.025	3-03A-1-0-2400A-H209		3-03A-12/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1209.
Class C	Rigid Restraint	03A	O-ISIN4-121D-3.1					0.750	
F01.031.026	3-03A-1-0-2439B-H9		3-03A-13/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1224-23.
Class C	Rigid Restraint	03A	O-ISIN4-121D-3.1					0.375	
F01.031.041	3-04A-2-0-2439B-H20		3-04A-01	QAL-14	VT-3	NA		6.000	Calculation No. OSC-520.
Class C	Rigid Restraint	04A	O-ISIN4-121B-3.5					0.125	

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.031.052	3-07A-4-0-2402A-SR15 Rigid Restraint	07A	3-07-03/sht.2 O-ISIN4-121A-3.8	QAL-14	VT-3	NA	8.000 1.000		Calculation No. OSC-522.
Class C									
F01.031.083	3-14B-6-0-2438B-SR9 Rigid Restraint	14B	3-03A-13/sht.2 O-ISIN4-121D-1.2	QAL-14	VT-3	NA	6.000 1.000		Calculation No. OSC-1224-23. Inspect with D01.020.072.
Class C									
F01.031.085	3-14B-6-0-2437A-SR11 Rigid Restraint	14B	3-14B-02/sht.4 O-ISIN4-121D-1.2	QAL-14	VT-3	NA	6.000 0.216		Calculation No. OSC-529.
Class C									
F01.031.091	3-56-4-0-2438B-SR2 Rigid Restraint	56	3-56-02/sht.3 O-ISIN4-104A-3.1 O-3AB-35602-03	QAL-14	VT-3	NA	8.000 0.125		Calculation No. OSC-563.
Class C									
<b>Total F01.031 Items:</b>		<b>7</b>							
<b>**** Category C, Thermal Movement ****</b>									
F01.032.025	3-03A-1-0-2402A-H36 Spring Hgr	03A	3-03A-02/sht.3 O-ISIN4-121B-3.3 O-3TB-303A02-03	QAL-14	VT-3	NA	6.000 1.000		Calculation No. OSC-513.
Class C									
F01.032.028	3-03A-1-0-2400A-H32 Spring Hgr	03A	3-03A-12/sht.2 O-ISIN4-121D-3.1	QAL-14	VT-3	NA	6.000 1.500		Calculation No. OSC-1209.
Class C									
<b>Total F01.032 Items:</b>		<b>2</b>							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Class 1, 2, and 3 ****									
F01.040.003	3-PZR-SUPPORT	50	ISI-OCN3-002 O-ISIN4-100A-3.2 OM 2201-229	QAL-14	VT-3	NA		0.000 0.000	Pressurizer Support. Also reference drawing B&W 149778E.
Class A									
F01.040.008	3-EFDW-PT	03A	OM 200.B-0006 O-ISIN4-122A-3.4	QAL-14	VT-3	NA		0.000 0.000	Emergency Feedwater Pump Turbine Reference Figure 1 in Manual OM 200.B-0006 Items 12&18.
Class C									
F01.040.021	1-GOV-OIL-PRES-TK Rigid Restraint	WL	KM 200-158 K-ISIN4-105A-1.1	QAL-14	VT-3	NA		0.000 0.000	Governor Oil Pressure Tank Support. Keowee Unit 1
Class C									
F01.040.029	3-RCP-SEAL-FTR-A	51A	OM 201-0473 O-ISIN4-101A-3.4 O-2437A	QAL-14	VT-3	NA		0.000 0.000	Reactor Coolant Pump Seal Supply Filter 3A Support. Reference manual OM 1201-1121 or OM 2201-597.
Class B									
F01.040.030	3-HPI-PU-A	51A	OM-2201-597 O-ISIN4-101A-3.3 OM 1201-1121	QAL-14	VT-3	NA		0.000 0.000	High Pressure Injection Pump 3A Support. Reference manual OM 1201-1121 or OM 2201-597.
Class B									
Total F01.040 Items:		5							
Total F01 Items:		52							

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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	3-RCP-3A1	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-900	UT	CS	72.000 9.500		Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.001A3	RCP-3A1	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT	CS	72.000 9.500		Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.002	3-RCP-3A2	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-900	UT	CS	72.000 9.500		Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.002A3	RCP-3A2	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT	CS	72.000 9.500		Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.003	3-RCP-3B1	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-900	UT	CS	72.000 9.500		Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.003A3	RCP-3B1	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT	CS	72.000 9.500		Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.004	3-RCP-3B2	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-900	UT	CS	72.000 9.500		Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
G01.001.004A3	RCP-3B2	50	OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT	CS	72.000 9.500		Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Class A									
Total G01.001 Items:		8							
Total G01 Items:		8							

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G02.001.005A3-PDA1-46			ISI-OCN3-011	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3A1 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.005B3-PDA2-46			ISI-OCN3-012	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3A2 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.005C3-PDB1-46			ISI-OCN3-013	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3B1 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.005D3-PDB2-46			ISI-OCN3-014	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3B2 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.006A3-PDA1-11			ISI-OCN3-011	NDE-995	UT	SS-Inconel		3.500 40416	Reference Section 7 of the ISI Plan, Volume 1. 3A1 Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10				0.750 Component	
						Make Up Nozzle, PC 46 to Safe End, PC 47			

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G02.001.006B3-PDA2-11			ISI-OCN3-012	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3A2
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.006C3-PDB1-11			ISI-OCN3-013	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3B1
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.006D3-PDB2-11			ISI-OCN3-014	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3B2
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.007A3-PDA1-47			ISI-OCN3-011	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up Nozzle 3A1.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.007B3-PDA2-47			ISI-OCN3-012	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up Nozzle 3A2.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.

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									scheduling the fourth interval.
G02.001.007C3-PDB1-47			ISI-OCN3-013	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining HPI Nozzle 3B1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		
G02.001.007D3-PDB2-47			ISI-OCN3-014	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining HPI Nozzle 3B2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		
G02.001.008A3RC-211-64			3RC-211	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up Nozzle 3A1. Perform UT on weld 3RC-211-64 and adjoining base metal out to weld 3RC-211-54 (at valve 3HP-127). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.027 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Pipe Safe End PC 47 to Pipe		0.375		
G02.001.008B3RC-210-24A			3RC-210	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up Nozzle 3A2. Perform UT on weld 3RC-210-24A and adjoining base metal out to weld 3RC-210-31 (at valve 3HP-126). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Safe End PC 47 to Pipe		0.375		

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									with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.0024 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.008C3RC-212-52			3RC-212	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-52 and adjoining base metal out to weld 3RC-212-45 (at valve 3HP-153). There is a circumferential weld located between weld 3RC-212-52 and 3RC-212-45. This weld (3RC-212-43C) will be documented as item number G02.001.009B. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. 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.
Class A	51A		O-ISIN4-100A-3.1				0.375		
			OM-201-597					Safe End PC 47 to Pipe	
G02.001.008D3RC-213-26			3RC-213	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. Perform UT on weld 3RC-213-26 and adjoining base metal out to weld 3RC-213-27 (at valve 3HP-152). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.005 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1				0.375		
			OM-201-597					Safe End PC 47 to Pipe	
G02.001.009B3RC-212-43C			3RC-212	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-43C. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be
Class A	51A		O-ISIN4-100A-3.1				0.375		
			OM-201-597					Pipe to Pipe	



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										changed. Check with Engineering prior to scheduling the fourth interval. 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.
G02.001.010A3RC-211-54			3RC-211	NDE-995	UT	SS	2.500		Component	Reference Section 7 of the ISI Plan, Volume 1. Make Up Nozzle 3A1. Perform UT on weld 3RC-211-54 (at valve 3HP-127). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.026 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1				0.375			
			OM-201-597		Pipe to Valve 3HP-127					
G02.001.010B3RC-210-31			3RC-210	NDE-995	UT	SS	2.500		Component	Reference Section 7 of the ISI Plan, Volume 1. Make Up Nozzle 3A2. Perform UT on weld 3RC-210-31 (at valve 3HP-126). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.025 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1				0.375			
			OM-201-597		Pipe to Valve 3HP-126					
G02.001.010C3RC-212-45			3RC-212	NDE-995	UT	SS	2.500		Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-45 (at valve 3HP-153). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.001 is inspected.
Class A	51A		O-ISIN4-100A-3.1				0.375			
			OM-201-597		Pipe to Valve 3HP-153					

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									Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.010D3RC-213-27			3RC-213	NDE-995	UT	SS		2.500	Component
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Pipe to Valve 3HP-152			0.375	
									Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. Perform UT on weld 3RC-213-27 (at valve 3HP-152). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. 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.
G02.001.011A3A1-THERM SLEEVE			ISI OCN3-011	NDE-105	RT	SS		3.500	
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					0.750	
									Reference Section 7 of the ISI Plan, Volume 1. Make UP Nozzle 3A1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.011B3A2-THERM SLEEVE			ISI OCN3-012	NDE-105	RT	SS		3.500	
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					0.750	
									Reference Section 7 of the ISI Plan, Volume 1. Make UP Nozzle 3A2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.011C3B1-THERM SLEEVE			ISI OCN3-013	NDE-105	RT	SS		3.500	
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					0.750	
									Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.

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G02.001.011D3B2-THERM SLEEVE			ISI OCN3-014	NDE-105	RT	SS	3.500		Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
		51A	O-ISIN4-100A-3.1				0.750		
Class A			OM-201-597						

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**Total G02.001 Items: 25**

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**Total G02 Items: 25**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G04.001.001 Class A	3RC-212-45 Circumferential	51A	3RC-212 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049 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.
G04.001.002 Class A	3RC-212-43C Circumferential	51A	3RC-212 O-ISIN4-100A-3.1	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-43C until iso 3-51A -61 was redrawn. Inspect this weld at the same time item number G02.001.009B is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G04.001.003 Class A	3RC-212-52 Circumferential	51A	3RC-212 O-ISIN4-100A-3.1	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-44A until iso 3-51A -61 was redrawn. 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.
G04.001.004 Class A	3RC-213-27 Circumferential	51A	3HP-213 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049 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.

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G04.001.005	3RC-213-26		3RC-213	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-26 until iso 3-51A -62 was revised.(See rev. 8) Inspect this weld at the same time item number 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.
Class A	Circumferential	51A	O-ISIN4-100A-3.1		Pipe to		0.375		
					Nozzle				
					Nozzle				
					on 3B2 Disch Line				
G04.001.006	3HP-242-39		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-39 until iso 3-51A -61 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to		0.375		
					Elbow				
G04.001.007	3HP-242-40		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See Addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to		0.375		
					Elbow				
G04.001.008	3HP-242-46		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See Addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to		0.375		
					Valve 3HP-488				
G04.001.009	3HP-243-19A		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-19A until iso 3-51A -62 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to		0.375		
					Elbow				
G04.001.010	3HP-243-23		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to		0.375		
					Valve 3HP-489				
G04.001.011	3HP-243-22		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to		0.375		
					Pipe				

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G04.001.012	3RC-210-32		3RC-210	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375	Valve 3HP-126 to Valve 3HP-486	
G04.001.013	3RC-211-47		3RC-211	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375	Valve 3HP-487 to Valve 3HP-127	
G04.001.014	3RC-212-46		3RC-212	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375	Valve 3HP-153 to Valve 3HP-488	
G04.001.015	3RC-213-28		3RC-213	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-100A-3.1	NDE-12			0.375	Valve 3HP-152 to Valve 3HP-489	

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G04.001.016 Class A	3HP-240-19 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Elbow	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-64-19 until iso 3-51A -64 was redrawn.
G04.001.017 Class A	3HP-240-21 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Elbow to Pipe	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-64-21 until iso 3-51A -64 was redrawn.
G04.001.018 Class A	3HP-240-32 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Valve 3HP-486	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan.
G04.001.019 Class A	3HP-241-32 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Elbow	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-63-32 until iso 3-51A -63 was redrawn.
G04.001.020 Class A	3HP-241-33 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Elbow to Pipe	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-63-33 until iso 3-51A -63 was redrawn.
G04.001.021 Class A	3HP-241-48 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Pipe	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Weld 3HP-241-33A was deleted and weld 3HP-241-48 replaced it.

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G04.001.022	3HP-241-43		3HP-241	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.375	Valve 3HP-487 to Pipe	
G04.001.023	3HP-243-21		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-21 until iso 3-51A -62 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.375	Pipe to Elbow	
G04.001.024	3RC-210-24A		3RC-210	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld 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		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Safe End PC 47 to Pipe	
G04.001.025	3RC-210-31		3RC-210	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. 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		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe to Valve 3HP-126	
G04.001.026	3RC-211-54		3RC-211	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld at the same time item number G02.001.010A is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe to Valve 3HP-127	
G04.001.027	3RC-211-64		3RC-211	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld at the same time item number G02.001.008A is inspected.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe Safe End PC 47 to Pipe	



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Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.

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Total G04.001 Items:	27
Total G04 Items:	27

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
G11.001.002	3-RPV-HEAD-PEN		O-ISIN4-100A-1.1	See Com	VT-3 SS	0.000	INRC Order EA-03-009 requires bare metal visual examination of 100% of the Reactor Pressure Vessel Head surface (including 360 degrees around each RPV head penetration nozzle). For additional information, contact J.M. Shuping of the Metallurgy, Lab Services Group. Procedure MP/O/A/1150/029-001
		50	OM-201-2271			0.000	
Class A							

**Total G11.001 Items: 1****Total G11 Items: 1**

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 2

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.024	3-01A-0-2441-H3		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
Class B	Rigid Support	01A	O-ISIN4-122A-3.2					0.000	
H04.001.025	3-01A-0-2441-R2		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
Class B	Hyd Snubber	01A	O-ISIN4-122A-3.2					0.688	Inspect with item number H04.001.025A.
H04.001.025A	3-01A-0-2441-R2		3-01-01/sht.1	NDE-35	PT	NA		36.000	Calculation No. OSC-506.
Class B	Hyd Snubber	01A	O-ISIN4-122A-3.2					0.688	Inspect along with item number H04.001.025. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.026	3-01A-0-2441-H4		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
Class B	Rigid Support	01A	O-ISIN4-122A-3.2					0.000	
H04.001.027	3-01A-0-2441-R4		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
Class B	Rigid Support	01A	O-ISIN4-122A-3.1					0.375	Inspect with item number H04.001.027A.
H04.001.027A	3-01A-0-2441-R4		3-01-01/sht.1	NDE-35	PT	CS		36.000	Calculation No. OSC-506.
Class B	Rigid Support	01A	O-ISIN4-122A-3.1					0.375	Inspect along with item number H04.001.027. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.028	3-01A-0-2401B-H5		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
Class B	Spring Hgr	01A	O-ISIN4-122A-3.1					0.000	Inspect with item number F01.022.005.

**CATEGORY ELC, Elective Inspections**

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
**Inservice Inspection Database Management System**

### Oconee 3

## Inservice Inspection Plan for Interval 4 Outage 2

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.029	3-01A-0-2401B-H6 Spring Hgr	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA	36.000 0.000		Calculation No. OSC-506.
Class B									
H04.001.030	3-01A-0-2401B-H7 Rigid Support	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA	36.000 0.000		Calculation No. OSC-506.
Class B									
H04.001.031	3-01A-0-2401B-H8 Rigid Support	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA	36.000 0.000		Calculation No. OSC-506.
Class B									
H04.001.032	3-01A-0-2401B-R5 Hyd Snubber	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA	36.000 0.000		Calculation No. OSC-506.
Class B									
H04.001.047	3-01A-0-2401B-R13 Rigid Support	01A	3-01-01/sht.1 O-ISIN4-122A-3.1	QAL-14	VT-3	CS	36.000 0.000		Calculation No. OSC-506. Inspect with item number F01.020.001.
Class B									
<b>Total H04.001 Items:</b>		<b>12</b>							
<b>Total H04 Items:</b>		<b>12</b>							

Duke Power Company  
Inservice Inspection Management  
Inservice Inspection Plan For:  
Oconee Unit 3 and Keowee Units 1 & 2  
Interval 4  
ISI Outage 3  
Refueling Outage EOC 24

**ISI Examination Listing and Schedule**

Revision 0

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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### Steam Generators (Primary Side)

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Head Welds; Circumferential ****									
B02.031.001	3-SGA-WG172		ISI-OCN3-003	NDE-620	UT	CS	102.750	40393	Steam Generator 3A Lower Head To Transition Pc.
	Circumferential	50	OM-2201-222				8.000	50236	7 to Pc. 9
Class A					Head to	Transition			
Total B02.031 Items:		1							

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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### Steam Generators (Primary Side)

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Tubesheet-to-Head Weld ****									
B02.040.002	3-SGA-WG58-2		ISI-OCN3-003	NDE-640	UT	CS	119.000	40393	Steam Generator 3A Lower Head Pc. 7 to Lower
	Circumferential	50	OM-2201-222	NDE-970			8.000		Tubesheet Pc. 50.
Class A					Head to				
					Tubesheet				
Total B02.040 Items:		1							

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

**DUKE ENERGY CORPORATION**  
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### Heat Exchangers (Primary Side)-Shell

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Tubesheet-to-Head Welds ****									
B02.060.002	3-LDCA-OUT-V6		1-97347-1	NDE-3630	UT	SS	8.620	40411	Letdown Cooler 3A Outlet Tubesheet Pc. 2 to
	Circumferential	51A	OM-201-3107				0.875		Channel Body Pc. 3.
	Class A		O-ISIN4-101A-3.1			Tubesheet to Head			
Total B02.060 Items:		1							
Total B02 Items:		3							



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

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

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## Pressurizer

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>										
B03.110.006	3-PZR-WP26-4		ISI-OCN3-002	NDE-620	UT	CS		5.750	40387	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
	Circumferential	50	OM 2201-229	NDE-640				6.187		Course Pc. 1. W-X Quadrant.
Class A			B&W 149789E		Nozzle to Shell					
B03.110.007	3-PZR-WP26-5		ISI-OCN3-002	NDE-620	UT	CS		5.750	40387	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
	Circumferential	50	OM 2201-229	NDE-640				6.187		Course Pc. 1. Y-Z Quadrant.
Class A			B&W 149789E		Nozzle to Shell					
B03.110.008	3-PZR-WP26-6		ISI-OCN3-002	NDE-620	UT	CS		5.750	40387	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
	Circumferential	50	OM 2201-229	NDE-640				6.187		Course Pc. 1. Z-W Quadrant.
Class A			B&W 149789E		Nozzle to Shell					
<b>Total B03.110 Items:</b>		<b>3</b>								

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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## Pressurizer

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nozzle Inside Radius Section ****									
B03.120.006	3-PZR-WP26-4	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40387	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell Course Pc. 1 (Inside Radius Section). W-X Quadrant.
Class A					Nozzle to Shell				
B03.120.007	3-PZR-WP26-5	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40387	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell Course Pc. 1 (Inside Radius Section). Y-Z Quadrant.
Class A					Nozzle to Shell				
B03.120.008	3-PZR-WP26-6	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40387	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell Course Pc. 1 (Inside Radius Section). Z-W Quadrant.
Class A					Nozzle to Shell				
Total B03.120 Items:		3							

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
**Inservice Inspection Database Management System**

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### Steam Generators (Primary Side)

### Ocoee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS	
**** Nozzle-to-Vessel Welds ****										
B03.130.003	3-SGB-WG50-2		ISI-OCN3-004	NDE-620	UT	CS		38.380	40393	Steam Generator 3B Outlet Nozzle Pc. 65 to Lower Head Pc. 7. W-Z-Quadrant.
	Circumferential	50	OM 2201-222	NDE-640				8.500		
Class A			B&W 109610E		Nozzle to Head					
B03.130.004	3-SGB-WG50-1		ISI-OCN3-004	NDE-620	UT	CS		38.380	40393	Steam Generator 3B Outlet Nozzle Pc. 65 to Lower Head Pc. 7. Y-Z Quadrant.
	Circumferential	50	OM 2201-222	NDE-640				8.500		
Class A			B&W 109610E		Nozzle to Head					
Total B03.130 Items:		2								

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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### Steam Generators (Primary Side)

### Osopee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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\*\*\*\* Nozzle Inside Radius Section \*\*\*\*

B03.140.003	3-SGB-WG50-2	50	ISI-OCN3-004 OM 2201-222 B&W 109610E	TBD	UT	CS	38.380 8.500	TBD	Steam Generator 3B Outlet Nozzle Pc. 65 to Lower Head Pc. 7 (Inside Radius Section). W-Z Quadrant.
Class A					Nozzle to Head				
B03.140.004	3-SGB-WG50-1	50	ISI-OCN3-004 OM 2201-222 B&W 109610E	TBD	UT	CS	38.380 8.500	TBD	Steam Generator 3B Outlet Nozzle Pc. 65 to Lower Head Pc. 7 (Inside Radius Section). Y-Z Quadrant.
Class A					Nozzle to Head				

**Total B03.140 Items: 2**

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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### Heat Exchangers (Primary Side)

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>											
B03.150.001	3-LDCA-IN-V2		1-97347-1	NDE-3630	UT	SS		3.000	40411		Letdown Cooler 3A Tubeside Inlet Nozzle C to Channel Body.
Class A	Circumferential	51A	OM 201-3107 O-ISIN4-101A-3.1			Nozzle to Channel Body		0.875			
B03.150.002	3-LDCA-OUT-V5		1-97347-1	NDE-3630	UT	SS		3.000	40411		Letdown Cooler 3A Tubeside Outlet Nozzle D to Channel Body.
Class A	Circumferential	51A	OM 201-3107 O-ISIN4-101A-3.1			Nozzle to Channel Body		0.875			

**Total B03.150 Items: 2**

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

**DUKE ENERGY CORPORATION**  
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### Heat Exchangers (Primary Side)

### Ocoee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle Inside Radius Section ****</b>									
B03.160.001	3-LDCA-IN-V2		1-97347-1	See Com	UT	SS	3.000	40411	Letdown Cooler 3A Tubeside Inlet Nozzle C to Channel Body (Inside Radius Section).
Class A		51A	OM 201-3107				0.875		Do not inspect, See Relief Request in Section 9 of General Requirements.
			O-ISIN4-101A-3.1		Nozzle to	Channel Body			
B03.160.002	3-LDCA-OUT-V5		1-97347-1	See Com	UT	SS	3.000	40411	Letdown Cooler 3A Tubeside Outlet Nozzle D to Channel Body (Inside Radius Section).
Class A		51A	OM 201-3107				0.875		Do not inspect, See Relief Request in Section 9 of General Requirements.
			O-ISIN4-101A-3.1		Nozzle to	Channel Body			
<b>Total B03.160 Items:</b>		<b>2</b>							
<b>Total B03 Items:</b>		<b>14</b>							

### CATEGORY B-F, Pressure Retaining Dissimilar Metal Welds In Vessel Nozzles

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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## Pressurizer

### Ocone 3

### Inservice Inspection Plan for Interval 4 Outage 3

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>									
B05.050.002	3-PZR-WP91-2		ISI-OCN3-002	NDE-35	PT	SS-CS	2.500		Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle
	Circumferential	50					0.375		Safe End Pc. 32. X-Y Quadrant.
Class A	Term end Dissimilar				Nozzle to Safe End				
B05.050.003	3-PZR-WP91-3		ISI-OCN3-002	NDE-35	PT	SS-CS	2.500		Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle
	Circumferential	50					0.375		Safe End Pc. 32. Z-W Quadrant.
Class A	Term end Dissimilar				Nozzle to Safe End				
<b>Total B05.050 Items:</b>		<b>2</b>							
<b>Total B05 Items:</b>		<b>2</b>							

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter**DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
Inservice Inspection Database Management System

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Inservice Inspection Plan for Interval 4 Outage 3

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11/17/2004**Pressurizer**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****								
B06.070.001	3-PZR-MW-FLANGE		OM 201-1026	QAL-13	VT-1 CS		28.000	Pressurizer Manway Flange Surface. Examination includes 1"annular surface surrounding each stud. Inspect when connection is disassembled. * Do not count in totals.
		50	B&W 149793E				0.000	
Class A								
Total B06.070 Items:		1						



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

**DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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**Pumps**

Oconee 3

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

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>							
B06.190.001	3-RCP-3A1-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3A1 Main Flange. Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
		50	OM 1201.D-0057			0.000	
Class A							
B06.190.002	3-RCP-3A2-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3A2 Main Flange. Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
		50	OM 1201.D-0057			0.000	
Class A							
B06.190.003	3-RCP-3B1-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3B1 Main Flange. Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
		50	OM 1201.D-0057			0.000	
Class A							
B06.190.004	3-RCP-3B2-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3B2 Main Flange. Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
		50	OM 1201.D-0057			0.000	
Class A							
<b>Total B06.190 Items:</b>		<b>4</b>					
<b>Total B06 Items:</b>		<b>5</b>					

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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11/17/2004**Piping**

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****							
B07.050.001	3-PZR-RC4-STUDS		OM-2201-0229	QAL-13	VT-1 CS	1.125	Pressurizer EMO Valve 3RC-4 Inlet Flange Studs and Nuts. W-Z Quadrant. Connected to Valve 3RC-66. 8 Studs, Length = 8.750". Examine all studs and nuts.
		50	O-ISIN4-100A-3.2			0.000	
Class A							
Total B07.050 Items:		1					

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

**DUKE ENERGY CORPORATION**  
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## CRD Housings

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

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	3-RPV-CRD-HOUSING		B&W 149902E	QAL-13	VT-1	NA		0.000	CRD Housing includes bolts (8 bolts per connection) and housing rings (1 pair per housing). Inspect only if disassembled.
		50	B&W 149919E					0.000	
Class A									

**Total B07.080 Items: 1**

**Total B07 Items: 2**

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

## **DUKE ENERGY CORPORATION INSERVICE INSPECTION PLAN MANAGEMENT Inservice Inspection Database Management System**

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**NPS 4 or Larger**

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>*** Circumferential Welds ***</b>										
B09.011.011	3-PIB1-1		ISI-OCN3-009	NDE-600	UT	CS		33.500		Pump 3B1 Suction Piping. SG3B Outlet Nozzle to Pipe Pc. 67.
	Circumferential	50	O-ISIN4-100A-3.1					2.330		
Class A	Term end				Nozzle to Pipe					
B09.011.011A	3-PIB1-1		ISI-OCN3-009	NDE-25	MT	CS		33.500		Pump 3B1 Suction Piping. SG3B Outlet Nozzle to Pipe Pc. 67.
	Circumferential	50	O-ISIN4-100A-3.1					2.330		
Class A	Term end				Nozzle to Pipe					
B09.011.019	3-PDA2-2		ISI-OCN3-012	PDI-UT-10	UT	SS-CS		33.500	40350	Pump 3A2 Discharge Piping. Safe End Pc. 49 to Elbow Pc. 53. Perform UT from Elbow Side and Safe End Side.
	Circumferential	50	O-ISIN4-100A-3.1					2.330	40397	
Class A	Dissimilar				Safe End to Elbow					
B09.011.019A	3-PDA2-2		ISI-OCN3-012	NDE-35	PT	SS-CS		33.500		Pump 3A2 Discharge Piping. Safe End Pc. 49 to Elbow Pc. 53.
	Circumferential	50	O-ISIN4-100A-3.1					2.330		
Class A	Dissimilar				Safe End to Elbow					
B09.011.033	3-PSL-9		ISI-OCN3-015	NDE-600	UT	SS		10.000	See Com	Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 85. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com				1.000		
Class A	Stress weld				Elbow to Pipe					
B09.011.033A	3-PSL-9		ISI-OCN3-015	NDE-35	PT	SS		10.000		Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 85.
	Circumferential	50	O-ISIN4-100A-3.2					1.000		
Class A	Stress weld				Elbow to Pipe					
B09.011.042	3-53A-15-55		3-53A-15 (2)	NDE-600	UT	SS		10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe					
B09.011.042A	3-53A-15-55		3-53A-15 (2)	NDE-35	PT	SS		10.000		
	Circumferential	53A	O-ISIN4-102A-3.2					1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe					

**CATEGORY B-J, Pressure Retaining Welds In  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.043	3-53A-15-57		3-53A-15 (2)	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.043A	3-53A-15-57		3-53A-15 (2)	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				

**Total B09.011 Items: 10**

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Welds ****									
B09.021.009	3-PSP-12		ISI-OCN3-016	NDE-35	PT	SS		2.500	Pressurizer Spray Piping. Valve Pc. 111 to Pipe Pc. 92.
Class A	Circumferential	50	O-ISIN4-100A-3.2					0.375	
	Stress weld					Valve 3RC-001 to Pipe			
B09.021.013	3HP-242-46		3HP-242	NDE-35	PT	SS		2.500	
Class A	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
	Stress weld					Pipe to Valve 3HP-488			
B09.021.017	3-PSP-13		ISI-OCN3-016	NDE-35	PT	SS		2.500	Pressurizer Spray Piping. Pipe Pc. 92 to Elbow Pc. 98.
Class A	Circumferential	50	O-ISIN4-100A-3.2					0.375	
	Stress weld					Pipe to Elbow			
B09.021.022	3-51A-142-21		3-51A-142	NDE-35	PT	SS		3.000	Letdown Cooler 3B Inlet Nozzle.
Class A	Circumferential	51A	O-ISIN4-101A-3.1					0.438	
	Term end					Elbow to Nozzle			
B09.021.023	3-51A-142-25		3-51A-142	NDE-35	PT	SS		2.500	
Class A	Circumferential	51A	O-ISIN4-101A-3.1					0.375	
						Pipe to Reducer			
B09.021.032	3RC-212-45		3RC-212	NDE-35	PT	SS		2.500	Inspect with G02.001.010C.
Class A	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
	Stress weld					Valve 3HP-153 to Pipe			
B09.021.033	3RC-212-52		3RC-212	NDE-35	PT	SS		2.500	This weld was listed previously as 2-51A-61-44A until iso 2-51A -61 was redrawn. Inspect with G02.001.008C.
Class A	Circumferential	51A	O-ISIN4-100A-3.1					0.375	
	Stress weld					Pipe to Safe End			
B09.021.050	3HP-241-43		3HP-241	NDE-35	PT	SS		2.500	
Class A	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
	Stress weld					Valve 3HP-487 to Pipe			

**CATEGORY B-J, Pressure Retaining Welds In  
Piping**DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
B09.021.054	3HP-243-23		3HP-243	NDE-35	PT	SS		2.500	
	Circumferential	51A	O-ISIN4-101A-3.4					0.375	
Class A	Stress weld				Pipe to				Valve 3HP-489
Total B09.021 Items:		9							

**CATEGORY B-J, Pressure Retaining Welds In  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Less Than NPS 4 \*\*\*\***

B09.032.002	3-PIA2-10		ISI-OCN3-008	NDE-35	PT	CS-Inconel	12.000		Pump 3A2 Suction Piping. Pipe Pc. 63 to Drain
	Branch	50	O-ISIN4-100A-3.1				2.250		Nozzle Pc. 64. The NPS of the branch line is 1.5
	Class A				Pipe to				inches.
	Dissimilar				Nozzle				

**Total B09.032 Items: 1**



**CATEGORY B-J, Pressure Retaining Welds In Piping****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.002	3-50-152-15		3-50-152	NDE-35	PT	SS	1.500		
	Socket	50	O-ISIN4-100A-3.2				0.281		
	Class A				Tee to Pipe				

**Total B09.040 Items: 1****Total B09 Items: 21**

**CATEGORY B-K, Welded Attachments For  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

B10.010.001	3-RPV-HD-LUG-A		ISI-OCN3-001	NDE-25	MT	NA		0.000	Reactor Vessel Closure Head Lug. X-Y Quadrant at
		50	O-ISIN4-100A-3.1					0.000	Y-Axis.
	Class A		OM 2201-228		Lifting Lug to				Head

**Total B10.010 Items: 1**

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

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## Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>											
B10.020.001	3-50-0-2481A-H6 Constant Support Class A	50	3-53-09/sht.1 O-ISIN4-100A-3.2 O-3RB-35309-01	NDE-35	PT	NA		2.500 0.154			Calculation No. OSC-1343-06 Vol.A. Inspect with F01.012.002.
B10.020.014	3-51A-0-2479A-H2A Hyd Snubber Class A	51A	3-53-10/sht.4 O-ISIN4-101A-3.4 O-3RB-35310-04	NDE-35	PT	NA		2.500 0.154			Calculation No. OSC-1343-06 Vol.B. H.P.I. East Coolant Loop. Inspect with F01.012.012.
<b>Total B10.020 Items:</b>		<b>2</b>									
<b>Total B10 Items:</b>		<b>3</b>									

### CATEGORY B-L-1, Pressure Retaining Welds In Pump Casings

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## Pumps

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Pump Casing Welds ****									
B12.010.003	3RCP-3B1		ISI-OCN3-009	QAL-13	VT-1	SS		68.000	Reactor Coolant Pump 3B1Casing Weld.
		50	OM-1201D-0057					0.000	
Class A			OM-1201D-0005		Casing to				
					Casing				
Total B12.010 Items:		1							

**CATEGORY B-L-2, Pump Casings**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>**** Pump Casing ****</b>							
B12.020.001	3RCP-3A1-CASING	50	ISI-OCN3-007 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3A1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.020.002	3RCP-3A2-CASING	50	ISI-OCN3-008 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3A2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.020.003	3RCP-3B1-CASING	50	ISI-OCN3-009 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3B1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.020.004	3RCP-3B2-CASING	50	ISI-OCN3-010 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3B2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A							

Total B12.020 Items:

4

**CATEGORY B-M-2, Valve Body**

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## Valves

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Valve Body, Exceeding NPS 4 ****</b>									
B12.050.001	3-53A-CF-11	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3	SS		14.000 0.000	A-Side Core Flood Valve Body 3CF-11 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.050.002	3-53A-CF-12	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3	SS		14.000 0.000	A-Side Core Flood Valve Body 3CF-12 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.050.003	3-53A-CF-13	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3	SS		14.000 0.000	B-Side Core Flood Valve Body 3CF-13 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.050.004	3-53A-CF-14	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3	SS		14.000 0.000	B-Side Core Flood Valve Body 3CF-14 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.050.005	3-53A-LP-47	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3	SS		10.000 0.000	B-Side LPI Valve Body 3LP-47 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.050.006	3-53A-LP-48	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3	SS		10.000 0.000	B-Side LPI Valve Body 3LP-48 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.050.007	3-53A-LP-1	53	OM-201-165 O-ISIN4-102A-3.1	QAL-14	VT-3	SS		12.000 0.000	Decay Heat Suction Valve Body 3LP-1 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A									

**CATEGORY B-M-2, Valve Body****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B12.050.008	3-53A-LP-2		OM-201-165	QAL-14	VT-3 SS	12.000		Decay Heat Suction Valve Body 3LP-2 Internal
		53	O-ISIN4-102A-3.1			0.000		Surfaces. Inspect one of the following valves: 3LP-1
Class A								or 3LP-2 only if valve is disassembled for
								maintenance, repair, or volumetric examination.
Total B12.050 Items:		8						
Total B12 Items:		13						

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

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## Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welds in CRD Housing ****									
B14.010.009	3-RPV-CRD-54WH9	50	B&W 149920E	NDE-35	PT	SS-Inconel	4.060 0.650		CRDM #54 Housing Body to Adapter.
Class A					Housing Body to Adapter				
B14.010.010	3-RPV-CRD-54WH60	50	B&W 43-53-032-12	NDE-35	PT	SS-CS	5.000 0.500		CRDM #54 Base to Motor Tube.
Class A					Base to Motor Tube				
B14.010.011	3-RPV-CRD-54	50	B&W 43-53-033-09	NDE-35	PT	SS-CS	4.300 0.400		CRDM #54 Motor Tube to Extension.
Class A					Motor Tube to Extension				
B14.010.012	3-RPV-CRD-54W61	50	B&W 43-53-031-02	NDE-35	PT	SS	4.190 0.380		CRDM #54 Extension to Cap.
Class A					Extension to Cap				
Total B14.010 Items:		4							
Total B14 Items:		4							





### **CATEGORY C-B, Pressure Retaining Nozzle Welds In Vessels**

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### Nozzles Without Reinforcing Plate in Vessels > 1/2 In. Nom. Thickness

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### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS	
**** Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Weld ****										
C02.021.002	3-SGB-WG23-1		ISI-OCN3-004	NDE-620	UT	CS		29.000	50236	Steam Generator 3B Outlet Nozzle Pc.14 to Shell
	Circumferential	50	OM 2201-222	See Com				6.750		Pc.3. W-X Quadrant. Depending upon examiner's qualifications, Procedure PDI-UT-6 may be used in lieu of Procedure NDE-620.
Class B					Nozzle to Shell					
C02.021.002A	3-SGB-WG23-1		ISI-OCN3-004	NDE-25	MT	CS		29.000		Steam Generator 3B Outlet Nozzle Pc.14 to Shell
	Circumferential	50	OM 22201-222					6.750		Pc.3. W-X Quadrant.
Class B					Nozzle to Shell					
Total C02.021 Items:		2								
**** Nozzle Inside Radius Section ****										
C02.022.002	3-SGB-WG23-1		ISI-OCN3-003	TBD	VT-1	CS		29.000		Steam Generator 3B Outlet Nozzle Pc.14 to Shell
	Circumferential	50	OM 2201-222					6.750		Pc.3. W-X Quadrant. (Inside Radius Section)
Class B					Nozzle to Shell					
Total C02.022 Items:		1								
Total C02 Items:		3								

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

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## Pressure Vessels

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.010.003	3-RCSR-COOLER-A		0M 201-0086	NDE-35	PT	NA		0.000	Reactor Coolant Seal Return Cooler 3A.
		51A	O-ISIN4-101A-3.1					0.000	
	Class B					Support Attachment to Shell			
Total C03.010 Items:		1							

**CATEGORY C-C, Welded Attachments For  
Vessels, Piping, Pumps, And Valves****DUKE ENERGY CORPORATION**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

C03.020.043	3-51B-2-0-2437A-H26		3-51-01/sht.3	NDE-35	PT	NA	4.000		Calculation No. OSC-538 Part "A". Inspect with
	Rigid Restraint	51B	O-ISIN4-101A-3.1				0.125		F01.021.055.
Class B									
C03.020.063	3-54A-3-0-2439A-H52		3-54-03/sht.2	NDE-35	PT	NA	8.000		Calculation No. OSC-556. Inspect with F01.022.063.
	Spring Hgr	54A	O-ISIN4-103A-3.1				1.000		
Class B									

**Total C03.020 Items: 2****Total C03 Items: 3**

**CATEGORY C-D, Pressure Retaining Bolting  
Greater Than 2 in. In Diameter**

DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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## Pumps

## Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts and Studs ****									
C04.030.001	3-HPI-PUMP-3A		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3A (Casing bolts). The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B		51A	O-ISIN4-101A-3.3				0.000		
C04.030.002	3-HPI-PUMP-3B		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3B (Casing bolts). The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B		51A	O-ISIN4-101A-3.3				0.000		
C04.030.003	3-HPI-PUMP-3C		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3C (Casing bolts). The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B		51A	O-ISIN4-101A-3.3				0.000		

Total C04.030 Items: 3

Total C04 Items: 3

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.011.006	3LP-132-11		3LP-132	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-24-11 until iso 3-53A-24 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
	Class B				Pipe to				
					Valve 3LP-17				
C05.011.006A	3LP-132-11		3LP-132	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-24-11 until iso 3-53A-24 was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
	Class B				Pipe to				
					Valve 3LP-17				
C05.011.007	3LP-132-5		3LP-132	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-24-5 until iso 3-53A-24 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
	Class B				Pipe to				
					Elbow				
C05.011.007A	3LP-132-5		3LP-132	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-24-5 until iso 3-53A-24 was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
	Class B				Pipe to				
					Elbow				

Total C05.011 Items: 4

**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 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.021.006	3-51A-118-13		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.006A	3-51A-118-13		3-51A-118	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.014	3-51A-119-40		3-51A-119	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Valve 3HP-410		0.531		
C05.021.014A	3-51A-119-40		3-51A-119	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-410		0.531		
C05.021.023	3-51A-121-20		3-51A-121	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Elbow		0.674		
C05.021.023A	3-51A-121-20		3-51A-121	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Elbow		0.674		
C05.021.039	3-51A-52-44		3-51A-52	NDE-600	UT	SS	3.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Valve 3HP-105 to Pipe		0.438		
C05.021.039A	3-51A-52-44		3-51A-52	NDE-35	PT	SS	3.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Valve 3HP-105 to Pipe		0.438		

**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 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.042	3-51A-59-90		3-51A-59	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
					Elbow to Pipe				
C05.021.042A	3-51A-59-90		3-51A-59	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
					Elbow to Pipe				
C05.021.053	3-51A-67-10		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
					Pipe to Elbow				
C05.021.053A	3-51A-67-10		3-51A-67	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
					Pipe to Elbow				
C05.021.063	3-51A-87-44A		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Valve 3HP-129 to Pipe				
C05.021.063A	3-51A-87-44A		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Valve 3HP-129 to Pipe				
C05.021.073	3-51A-118-8		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Pipe to Elbow				
C05.021.073A	3-51A-118-8		3-51A-118	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Pipe to Elbow				
C05.021.083	3HP-435-48		3HP-435	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-50-48 on iso 3-51A-50 until it was transferred to iso 3HP-435. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com			0.237		
					Reducer to Flange				



**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 3

Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
C05.021.083A	3HP-435-48		3HP-435	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-50-48 on iso 3-51A-50 until it was transferred to iso 3HP-435.
	Circumferential	51A	O-ISIN4-101A-3.3				0.237		
Class B					Reducer to Elbow				
C05.021.088	3HP-312-20		3HP-312	NDE-600	UT	SS	2.500	See Com	This weld was originally listed as 3-51A-59-20, until isometric 3-51A-59 was redrawn as 3HP-312. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.375		
Class B					Tee to Pipe				
C05.021.088A	3HP-312-20		3HP-312	NDE-35	PT	SS	2.500		This weld was originally listed as 3-51A-59-20, until isometric 3-51A-59 was redrawn as 3HP-312.
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		
Class B					Tee to Pipe				
Total C05.021 Items:		20							

**CATEGORY C-F-1, Pressure Retaining Welds**  
**In Austenitic SS Or High Alloy Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Socket Welds**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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C05.030.001	3-51A-77-15		3-51A-77	NDE-35	PT SS	2.000	
	Socket	51A	O-ISIN4-101A-3.1			0.436	
	Class B				Pipe to Valve 3HP-21		

Total C05.030 Items:	1
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**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS Or High Alloy Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Pipe Branch Connections of Branch Piping >=  
NPS 2**

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Circumferential Weld \*\*\*\***

C05.041.001	3-53B-52-3		3-53B-52	NDE-35	PT	SS	8.000		
	Branch	53B	O-ISIN4-104A-3.1				0.148		
	Class B					Weld-o-let to Pipe			

**Total C05.041 Items: 1**

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

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

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>										
C05.051.001	3MS-91-6		3MS-91	NDE-600	UT	CS	36.000		See Com	This weld was listed previously as 3-01A-10-1 on iso 3-01A-10 until it was transferred to iso 3MS-91 and assigned the number 6 instead of number 1. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	01A	O-ISIN4-122A-3.1	See Com			1.164			
Class B					Pipe to Elbow					
C05.051.001A	3MS-91-6		3MS-91	NDE-25	MT	CS	36.000			This weld was listed previously as 3-01A-10-1 on iso 3-01A-10 until it was transferred to iso 3MS-91 and assigned the number 6 instead of number 1.
	Circumferential	01A	O-ISIN4-122A-3.1				1.164			
Class B					Pipe to Elbow					
C05.051.002	3MS-116-39		3MS-116	NDE-600	UT	CS	12.000		See Com	This weld was listed previously as 3-01A-10-19 on iso 3-01A-10 until it was deleted and welded back on iso 3MS-116. See rev 38 of iso 3-01A-10 and rev. 0 of iso 3MS-116. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	01A	O-ISIN4-122A-3.1	See Com			0.562			
Class B					Pipe to Valve 3MS-79					
C05.051.002A	3MS-116-39		3MS-116	NDE-25	MT	CS	12.000			This weld was listed previously as 3-01A-10-19 on iso 3-01A-10 until it was deleted and welded back on iso 3MS-116. See rev 38 of iso 3-01A-10 and rev. 0 of iso 3MS-116.
	Circumferential	01A	O-ISIN4-122A-3.1				0.562			
Class B					Pipe to Valve 3MS-79					
C05.051.016	3FWD-74-A		3-03-27	NDE-600	UT	CS	24.000		See Com	Grinnell Subassembly 3FWD-74. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	03	O-ISIN4-121B-3.3 3FWD-74	See Com			1.218			
Class B					Pipe to Elbow					
C05.051.016A	3FWD-74-A		3-03-27	NDE-25	MT	CS	24.000			Grinnell Subassembly 3FWD-74
	Circumferential	03	O-ISIN4-121B-3.3 3FWD-74				1.218			
Class B					Pipe to Elbow					
C05.051.024	3-03A-15-8		3-03A-15	NDE-600	UT	CS	6.000		See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	03A	O-ISIN4-121D-3.1	See Com			0.432			
Class B					Pipe to Elbow					

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

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

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.024A	3-03A-15-8		3-03A-15	NDE-25	MT	CS	6.000		
	Circumferential	03A	O-ISIN4-121D-3.1				0.432		
Class B					Pipe to Elbow				
C05.051.025	3-03A-17-42		3-03A-17	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	03A	O-ISIN4-121D-3.1	See Com			0.562		
Class B					Pipe to Tee				
C05.051.025A	3-03A-17-42		3-03A-17	NDE-25	MT	CS	6.000		
	Circumferential	03A	O-ISIN4-121D-3.1				0.562		
Class B					Pipe to Tee				
C05.051.029	3-14B-116-42		3-14B-116	NDE-600	UT	CS	8.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		
Class B					Elbow to Pipe				
C05.051.029A	3-14B-116-42		3-14B-116	NDE-25	MT	CS	8.000		
	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
Class B					Elbow to Pipe				
C05.051.037	3LPS-478-40A		3LPS-478	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-40A until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		
Class B					Pipe to Pipe				
C05.051.037A	3LPS-478-40A		3LPS-478	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-40A until iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
Class B					Pipe to Pipe				

**Total C05.051 Items: 14**

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

**DUKE ENERGY CORPORATION**  
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### Pipe Branch Connections of Branch Piping $\geq$ NPS 2

### Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.081.002	3MSB-10-F		3MS-120	NDE-25	MT	CS		6.000	Inspect Reinforcing Collar weld and Branch Weld per IWC-2500-13. Grinnell Subassembly 3MSB-10. This subassembly weld was listed previously on iso 3-01A-9 until it was transferred to iso 3MS-120.
	Branch	01A	O-ISIN4-122A-3.2					0.432	
	Class B		3MSB-10		Pipe to Pipe				
Total C05.081 Items:		1							
Total C05 Items:		41							

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

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**Piping**

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>							
D01.020.029	3-03A-1-0-2400A-H114		3-03A-09/sht.2	QAL-13	VT-1 NA	6.000	Calculation No. OSC-526. Inspect with F01.030.034.
	Rigid Support	03A	O-ISIN4-121D-3.1			0.500	
Class C							
D01.020.031	3-03A-1-0-2400A-SR55		3-03A-12/sht.2	QAL-13	VT-1 NA	6.000	Calculation No. OSC-1209. Inspect with
	Rigid Restraint	03A	O-ISIN4-121D-3.1			1.000	F01.031.029.
Class C							
D01.020.041	3-07A-2400A-DE005		3-07-03/sht.2	QAL-13	VT-1 NA	8.000	Calculation No. OSC-522. Inspect with F01.030.065.
	Rigid Support	07A	O-ISIN4-121A-3.8			0.500	
Class C							
D01.020.042	3-07A-4-0-2400A-SR7		3-07-01/sht.2	QAL-13	VT-1 NA	24.000	Calculation No. OSC-1221. Inspect with
	Rigid Restraint	07A	O-ISIN4-121A-3.7			2.000	F01.031.051.
Class C							
D01.020.082	3-56-4-0-2438B-SR3		3-56-02/sht.3	QAL-13	VT-1 NA	8.000	Calculation No. OSC-563. Inspect with F01.030.115.
	Rigid Support	56	O-ISIN4-104A-3.1			1.500	
Class C							
<b>Total D01.020 Items:</b>		<b>5</b>					
<b>Total D01 Items:</b>		<b>5</b>					

### CATEGORY F-A, Supports

**DUKE ENERGY CORPORATION**  
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## **Class 1 Piping Supports**

### Ocone 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Category B, Multi-Directional ****</b>									
F01.011.014	3-51A-0-2478A-H7C		3-51-14/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1660-01.
	Rigid Restraint	51A	O-ISIN4-101A-3.1					0.500	
Class A									
<b>Total F01.011 Items: 1</b>									
<b>**** Category C, Thermal Movement ****</b>									
F01.012.001	3-50-2479A-H1A		0-2491B-2A	QAL-14	VT-3	NA		10.000	Calculation No. OSC-1352.
	Hyd Snubber	50	O-ISIN4-100A-3.2					0.000	
Class A									
F01.012.002	3-50-0-2481A-H6		3-53-09/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1343-06 Vol.A. Inspect with
	Constant Support	50	O-ISIN4-100A-3.2					0.154	B10.020.001.
Class A									
F01.012.012	3-51A-0-2479A-H2A		3-53-10/sht.4	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1343-06 Vol.B. H.P.I. East
	Hyd Snubber	51A	O-ISIN4-101A-3.4					0.154	Coolant Loop. Inspect with B10.020.014.
Class A									
<b>Total F01.012 Items: 3</b>									



**CATEGORY F-A, Supports**

**DUKE ENERGY CORPORATION**  
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**Class 2 Piping Supports**

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Category A, One-Directional ****</b>									
F01.020.002	3-01A-0-2441-H13		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1					0.000	
Class B									
F01.020.003	3-01A-0-2441-H14		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1					0.000	
Class B									
F01.020.005	3-01A-1-1-0-2401B-H41		3-01-09/sht.1	QAL-14	VT-3	NA		12.000	Calculation No. OSC-507.
	Rigid Support	01A	O-ISIN4-122A-3.2					0.000	
Class B			O-3TB-30109-01						
F01.020.046	3-51B-2-0-2436C-H14		3-51-01/sht.4	QAL-14	VT-3	NA		2.000	Calculation No. OSC-538 Part "A".
	Rigid Support	51B	O-ISIN4-101A-3.2					0.000	
Class B									
F01.020.063	3-53B-2-0-2435D-H43		3-51-02/sht.4	QAL-14	VT-3	NA		6.000	Calculation No. OSC-539.
	Rigid Support	53B	O-ISIN4-101A-3.3					0.000	
Class B			O-3AB-35102-04						
F01.020.065	3-53B-5-0-2435B-H118		3-53-01/sht.1	QAL-14	VT-3	NA		12.000	Calculation No. OSC-549.
	Rigid Support	53B	O-ISIN4-102A-3.1					0.187	
Class B			O-3AB-35301-01						
F01.020.067	3-53B-5-0-2435B-H20		3-53-01/sht.2	QAL-14	VT-3	NA		14.000	Calculation No. OSC-549.
	Rigid Support	53B	O-ISIN4-102A-3.1					0.187	
Class B			O-3AB-35301-02						
F01.020.075	3-53B-2-0-2435B-SR28		3-53-01/sht.2	QAL-14	VT-3	NA		12.000	Calculation No. OSC-549.
	Rigid Support	53B	O-ISIN4-103A-3.1					0.125	
Class B			O-3AB-35301-02						

### CATEGORY F-A, Supports

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### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

[illegible]

F01.020.091	3-55-1-0-2439C-SR1		3-55-01/sht.1	QAL-14	VT-3	NA	6.000	Calculation No. OSC-558.
	Rigid Support	55	O-ISIN4-144A-3.2				0.000	
Class B								

**Total F01.020 Items: 10**

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

F01.021.053	3-51B-2436G-DE014	3-51-01/sht.4	QAL-14	VT-3 NA	2.500	Calculation No. OSC-538 Part "A".
	Rigid Restraint	51B	O-ISIN4-101A-3.2		0.000	
Class B						

F01.021.055	3-51B-2-0-2437A-H26		3-51-01/sht.3	QAL-14	VT-3 NA	4.000	Calculation No. OSC-538 Part "A". Inspect with C03.020.043.
	Rigid Restraint	51B	O-ISIN4-101A-3.1			0.125	
Class B							

F01.021.081	3-54A-2435B-DE015		3-53-01/sht.1	QAL-14	VT-3 NA	10.000	Calculation No. OSC-549.
	Rigid Restraint	54A	O-ISIN4-102A-3.1			0.000	
Class B			O-3AB-35301-01				

F01.021.091	3-55-0-2439A-DE002		3-55-02/sht.1	QAL-14	VT-3 NA	6.000	Calculation No. OSC-559.
	Rigid Restraint	55	O-ISIN4-144A-3.2			0.000	
Class B							

**Total F01.021 Items: 4**

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

F01.022.002	3-01A-0-2481A-H9A		3-01-08/sht.1	QAL-14	VT-3 CS	26.000	Calculation No. OSC-1334-06.
	Constant Support	01A	O-ISIN4-121B-3.3			1.000	
Class B			0-2490A-3(S)				

**CATEGORY F-A, Supports**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.022.004	3-01A-0-2401B-H18		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
	Spring Hgr	01A	O-ISIN4-122A-3.1					0.000	Inspect with H04.001.041
Class B									
F01.022.007	3-01A-0-2441-R7		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
	Hyd Snubber	01A	O-ISIN4-122A-3.1					0.000	
Class B									
F01.022.051	3-55-1-0-2439A-H33		3-55-02/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-554.
	Spring Hgr	55	O-ISIN4-144A-3.2					0.000	
Class B									
Total F01.022 Items:		4							

### CATEGORY F-A, Supports

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### **Class 3 Piping Supports**

### Oconee 3

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.030.033	3-03A-1-0-2400A-H111		3-03A-09/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.500	
F01.030.034	3-03A-1-0-2400A-H114		3-03A-09/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526. Inspect with
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.500	D01.020.029.
F01.030.035	3-03A-1-0-2400A-H116		3-03A-09/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.500	
F01.030.037	3-03A-1-0-2400A-H133		3-03A-12/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1209.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
F01.030.064	3-07A-6-2402A-H45		3-07-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-521.
Class C	Rigid Support	07A	O-ISIN4-121A-3.7					0.000	
F01.030.065	3-07A-2400A-DE005		3-07-03/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-522. Inspect with
Class C	Rigid Support	07A	O-ISIN4-121A-3.8					0.500	D01.020.041.
F01.030.066	3-07A-2400A-DE007		3-07-03/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-522.
Class C	Rigid Support	07A	O-ISIN4-121A-3.8					0.125	
F01.030.067	3-07A-2400A-DE047		3-07-03/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-522.
Class C	Rigid Support	07A	O-ISIN4-121A-3.8					0.125	



**CATEGORY F-A, Supports**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
F01.031.111	1-WL-100A-K0006		K-ISIN4-100A-1.1	QAL-14	VT-3 NA	8.000	Calc.# KC-0111, Page 30
	Rigid Restraint	WL				0.625	Problem # 0-WL-01 sht. 1 of 1. Keowee Unit 1.
Class C							

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 Total F01.031 Items: 6
 

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

F01.032.026	3-03A-1-0-2401A-SR100PO		3-03A-06/sht.3	QAL-14	VT-3 NA	6.000	Calculation No. OSC-519.
	Hyd Snubber	03A	O-ISIN4-121D-3.1			0.203	
Class C							
F01.032.027	3-03A-1-0-2401A-SR33		3-03A-06/sht.3	QAL-14	VT-3 NA	6.000	Calculation No. OSC-519.
	Mech Snubber	03A	O-ISIN4-121D-3.1			0.000	
Class C							
F01.032.041	3-02A-0-2403A-H2		3-01A-04/sht.2	QAL-14	VT-3 NA	6.000	Calculation No. OSC-510.
	Spring Hgr	02A	O-ISIN4-122A-3.4			0.000	
Class C							
			O-3TB-301A04-02				

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 Total F01.032 Items: 3
 

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## Supports Other Than Piping Supports

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Class 1, 2, and 3 ****									
F01.040.009	3-EFDW-TD-PU	03A	0M 206.A-0001 O-ISIN4-121D-3.1	QAL-14	VT-3	NA		0.000 0.000	Emergency Feedwater Turbine Driven Pump Support & Pad.
Class C									
F01.040.010	3-EFDW-MD-PU-A	03A	0M 206-0036 O-ISIN4-121D-3.1	QAL-14	VT-3	NA		0.000 0.000	Emergency Feedwater Motor Driven Pump 3A Support & Pad.
Class C									
F01.040.022	1-GOV-OIL-PUMP-A Rigid Restraint	WL	KM 200-158 K-ISIN4-105A-1.1	QAL-14	VT-3	NA		0.000 0.000	Governor Oil Pump A Support. Keowee Unit 1.
Class C									
F01.040.025	3-RCSR-COOLER-A	51A	0M 201-0086 O-ISIN4-101A-3.1	QAL-14	VT-3	NA		0.000 0.000	Reactor Coolant Seal Return Cooler 3A Support.
Class B									
F01.040.031	3-50-RCPM-3A1-SS2 Mech Snubber	50	0-1066A O-ISIN4-100A-3.1 O-ISIN4-100A-3.3	QAL-14	VT-3	NA		6.000 0.000	Calculaton No. OSC-1011-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP O-096-1575.
Class A									
Total F01.040 Items:		5							
Total F01 Items:		47							





### **CATEGORY AUG, Augmented Inspections**

**DUKE ENERGY CORPORATION**  
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### Inservice Inspection Plan for Interval 4 Outage 3

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G11.001.001	3-RPV-HEAD-PEN		O-ISIN4-100A-1.1	TBD	UT	SS	0.000	TBD	NRC Order EA-03-009 requires ultrasonic testing of each RPV head penetration nozzle. The area to be examined includes the nozzle base material from two inches above the J-groove weld and continues to the bottom of the nozzle. There should be an assessment by ultrasonic testing to determine if leakage has occurred into (or a leak path exist in) the interference fit zone. For additional information, contact J.M. Shuping of the Metallurgy, Lab Services Group.
		50	OM-201-2271				0.000		
Class A									
Total G11.001 Items:		1							
Total G11 Items:		1							

### CATEGORY ELC, Elective Inspections

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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### Inservice Inspection Plan for Interval 4 Outage 3

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H02.001.001	3-PHA-13		ISI-OCN3-005	NDE-35	PT	CS-Inconel	9.000		Reference Section 7 Paragraph 7.1.10 of the ISI
	Branch	50	O-ISIN4-100A-3.1				2.875		Plan - Volume1 The diameter of hole that penetrates
Class A	Dissimilar				Nozzle RTE	Nozzle to			through the nozzle into the hot leg = .613
					Pipe A Hot Leg	X-axis			
H02.001.002	3-PHA-14		ISI-OCN3-005	NDE-35	PT	CS-Inconel	9.000		Reference Section 7 Paragraph 7.1.10 of the ISI
	Branch	50	O-ISIN4-100A-3.1				2.875		Plan - Volume1 The diameter of hole that penetrates
Class A	Dissimilar				Nozzle RTE	Nozzle to			through the nozzle into the hot leg = .613
					Pipe A Hot Leg	Y Z-axis			
H02.001.003	3-PHA-15		ISI-OCN3-005	NDE-35	PT	CS-Inconel	9.000		Reference Section 7 Paragraph 7.1.10 of the ISI
	Branch	50	O-ISIN4-100A-3.1				2.875		Plan - Volume1 The diameter of hole that penetrates
Class A	Dissimilar				Nozzle RTE	Nozzle to			through the nozzle into the hot leg = .613
					Pipe A Hot Leg	Z W-axis			
Total H02.001 Items:		3							
Total H02 Items:		3							

### **CATEGORY ELC, Elective Inspections**

**DUKE ENERGY CORPORATION**  
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### Inservice Inspection Plan for Interval 4 Outage 3

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.008	3-03-0-2401A-SR11		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Mech Snubber	03	O-ISIN4-121B-3.3					0.000	
H04.001.010	3-03-0-2401A-SR10		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Mech Snubber	03	O-ISIN4-121B-3.3					0.000	
H04.001.012	3-03-0-2439B-H64		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Rigid Support	03	O-ISIN4-121B-3.3					2.000	Inspect with item number H04.001.012A.
H04.001.012A	3-03-0-2439B-H64		3-03-01/sht.1	NDE-35	PT	NA		24.000	Calculation No. OSC-512.
Class C	Rigid Support	03	O-ISIN4-121B-3.3					2.000	Inspect along with item number H04.001.012. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.013	3-03-0-2439A-H63		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Spring Hgr	03	O-ISIN4-121B-3.3					0.000	
H04.001.014	3-03-0-2401A-H62		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Rigid Support	03	O-ISIN4-121B-3.3					0.000	
H04.001.015	3-03-0-2401A-SR1		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Mech Snubber	03	O-ISIN4-121B-3.3					0.000	
H04.001.016	3-03-0-2401A-H61		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
Class C	Spring Hgr	03	O-ISIN4-121B-3.3					0.000	

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.017	3-03-0-2401A-SR2		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
	Mech Snubber	03	O-ISIN4-121B-3.3					0.435	Inspect with item number H04.001.017A.
Class C									
H04.001.017A	3-03-0-2401A-SR2		3-03-01/sht.1	NDE-35	PT	NA		24.000	Calculation No. OSC-512.
	Mech Snubber	03	O-ISIN4-121B-3.3					0.435	Inspect along with item number H04.001.017.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.041	3-01A-0-2401B-H18		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
	Spring Hgr	01A	O-ISIN4-122A-3.1					0.000	Inspect with F01.022.004.
Class B									
Total H04.001 Items:		11							
Total H04 Items:		11							

Duke Power Company  
Inservice Inspection Management  
Inservice Inspection Plan For:  
Oconee Unit 3 and Keowee Units 1 & 2  
Interval 4  
ISI Outage 4  
Refueling Outage EOC 25

**ISI Examination Listing and Schedule**

Revision 0

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

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

### Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Tubesheet-to-Head Weld ****									
B02.040.001	3-SGA-WG58-1		ISI-OCN3-003	NDE-970	UT	CS	119.000	40393	Steam Generator 3A Upper Head Pc. 8 to Upper
	Circumferential	50	OM-2201-222				8.000		Tubesheet Pc. 51.
	Class A				Head to				Tubesheet
Total B02.040 Items: 1									
Total B02 Items: 1									

**CATEGORY B-D, Full Penetration Welded  
Nozzels In Vessels - Inspection Program B****DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>										
B03.130.005	3-SGA-WG25		ISI-OCN3-003	NDE-970	UT	CS	48.630	40393		Steam Generator 3A Inlet Nozzle Pc. 70 to Upper
	Circumferential	50	OM 2201-222	NDE-640			8.000			Head Pc. 8.
	Class A		B&W 109611E		Nozzle to					Head
B03.130.006	3-SGB-WG25		ISI-OCN3-004	NDE-970	UT	CS	48.630	40393		Steam Generator 3B Inlet Nozzle Pc. 70 to Upper
	Circumferential	50	OM 2201-222	NDE-640			8.000			Head Pc. 8.
	Class A		B&W 109611E		Nozzle to					Head

**Total B03.130 Items: 2**

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

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### Steam Generators (Primary Side)

### Ocoee 3

### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nozzle Inside Radius Section ****									
B03.140.005	3-SGA-WG25	50	ISI-OCN3-003 OM 2201-222 B&W 109611D	TBD	UT	CS	48.630 8.000	TBD	Steam Generator 3A Inlet Nozzle Pc. 70 to Upper Head Pc. 8 (Inside Radius Section).
Class A					Nozzle to Head				
B03.140.006	3-SGB-WG25	50	ISI-OCN3-004 OM 2201-222 B&W 109611D	TBD	UT	CS	48.630 8.000	TBD	Steam Generator 3B Inlet Nozzle Pc. 70 to Upper Head Pc. 8 (Inside Radius Section).
Class A					Nozzle to Head				
Total B03.140 Items:		2							
Total B03 Items:		4							



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

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## Reactor Vessel

### Ocone 3

### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Closure Head Nuts ****									
B06.010.021	3-RPV-26-209-21	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.022	3-RPV-26-209-22	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.023	3-RPV-26-209-23	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.024	3-RPV-26-209-24	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.025	3-RPV-26-209-61	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.026	3-RPV-26-209-26	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.027	3-RPV-26-209-27	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.028	3-RPV-26-209-28	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									

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

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## Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.010.029	3-RPV-26-209-29	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.030	3-RPV-26-209-30	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.031	3-RPV-26-209-31	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.032	3-RPV-26-209-32	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.033	3-RPV-26-209-33	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.034	3-RPV-26-209-67	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.035	3-RPV-26-209-35	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.036	3-RPV-26-209-36	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.037	3-RPV-26-209-37	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									

**CATEGORY B-G-1, Pressure Retaining  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
B06.010.038	3-RPV-26-209-38	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.039	3-RPV-26-209-39	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.040	3-RPV-26-209-40	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
<hr/>							
Total B06.010 Items:		20					

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Studs, when removed ****									
B06.030.021	3-RPV-25-209-21	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.022	3-RPV-25-209-22	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.023	3-RPV-25-209-23	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.024	3-RPV-25-209-24	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.025	3-RPV-25-209-61	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.026	3-RPV-25-209-26	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.027	3-RPV-25-209-27	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.028	3-RPV-25-209-28	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									



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

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## Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.038	3-RPV-25-209-38	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed, Stud Length = 63.250.
Class A									
B06.030.039	3-RPV-25-209-39	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed, Stud Length = 63.250.
Class A									
B06.030.040	3-RPV-25-209-40	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed, Stud Length = 63.250.
Class A									
Total B06.030 Items:		20							

**CATEGORY B-G-1, Pressure Retaining  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
<b>**** Closure Washers, Bushings ****</b>							
B06.050.002	3-RPV-WASH-BUSH		OM 201-2271	QAL-13	VT-1 CS	9.750	Reactor Vessel Closure Washers and Bushings.
		50	B&W 149922E			0.000	Stud Holes 21-40.
Class A							

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Total B06.050 Items: 1

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

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## Pressurizer

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****									
B06.070.001	3-PZR-MW-FLANGE		OM 201-1026	QAL-13	VT-1	CS	28.000		Pressurizer Manway Flange Surface. Examination includes 1"annular surface surrounding each stud.
		50	B&W 149793E				0.000		Inspect when connection is disassembled.
	Class A								* Do not count in totals.
Total B06.070 Items:		1							



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

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**Pumps**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>*** Flange Surface, when connection disassembled ***</b>							
B06.190.001	3-RCP-3A1-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3A1 Main Flange.
		50	OM 1201.D-0057			0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A							
B06.190.002	3-RCP-3A2-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3A2 Main Flange.
		50	OM 1201.D-0057			0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A							
B06.190.003	3-RCP-3B1-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3B1 Main Flange.
		50	OM 1201.D-0057			0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A							
B06.190.004	3-RCP-3B2-FLANGE		OM 1201.D-0005	QAL-13	VT-1 SS	0.000	Reactor Coolant Pump 3B2 Main Flange.
		50	OM 1201.D-0057			0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A							
<b>Total B06.190 Items:</b>		<b>4</b>					
<b>Total B06 Items:</b>		<b>46</b>					

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter**DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>**** Bolts, Studs, and Nuts ****</b>							
B07.020.003	3-PZR-LHB-STUDS		OM 2201-0061	QAL-13	VT-1 CS	2.000 0.000	Pressurizer Lower Heater Bundle Studs and Nuts. 16 Studs, Length = 17.000". Examine all studs and nuts.
Class A		50					
Total B07.020 Items:		1					

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

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## Steam Generators

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### Inservice Inspection Plan for Interval 4 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>									
B07.030.005	3-SGA-UHIC-STUDS	50	B&W 145470E	QAL-13	VT-1	CS	1.000	0.000	Steam Generator 3A Upper Head Inspection Cover Studs and Nuts. 12 Studs, Length = 6.000". Examine all studs and nuts.
Class A									
B07.030.006	3-SGA-LHIC-STUDS	50	B&W 145470E	QAL-13	VT-1	CS	1.000	0.000	Steam Generator 3A Lower Head Inspection Cover Studs and Nuts. 12 Studs, Length = 6.000". Examine all studs and nuts.
Class A									
<b>Total B07.030 Items:</b>		<b>2</b>							

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
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ITEM NUMBER		ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****								
B07.070.003	3-53A-CF13-STUDS			OM-245-001	QAL-13	VT-1 NA	1.125	B-Side Core Flood 14" Valve 3CF-13 Bolting. Y Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14. Examine all studs and nuts.
		53A		O-ISIN4-102A-3.3			0.000	
Class A								
B07.070.007	3-53A-LP1-STUDS			OM-201-165	QAL-13	VT-1 NA	1.000	Decay Heat Suction 12" Valve 3LP-1 Bolting. Inspect one of the following valves: 3LP-1 or 3LP-2. Examine all studs and nuts.
		53A		O-ISIN4-102A-3.1			0.000	
Class A								
Total B07.070 Items:		2						

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.080.001	3-RPV-CRD-HOUSING		B&W 149902E	QAL-13	VT-1	NA		0.000	CRD Housing includes bolts (8 bolts per connection) and housing rings (1 pair per housing). Inspect only if disassembled.
		50	B&W 149919E					0.000	
Class A									
Total B07.080 Items:		1							
Total B07 Items:		6							

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

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>*** Circumferential Welds ***</b>									
B09.011.002	3-PHA-12		ISI-OCN3-005	NDE-600	UT	CS	42.750		Steam Generator 3A Hot Leg to Reactor Vessel. Pipe Pc. 36 to SG3A Inlet Nozzle.
	Circumferential	50	O-ISIN4-100A-3.1				2.856		
Class A	Term end				Pipe to Nozzle				
B09.011.002A	3-PHA-12		ISI-OCN3-005	NDE-25	MT	CS	42.750		Steam Generator 3A Hot Leg to Reactor Vessel. Pipe Pc. 36 to SG3A Inlet Nozzle.
	Circumferential	50	O-ISIN4-100A-3.1				2.856		
Class A	Term end				Pipe to Nozzle				
B09.011.004	3-PHB-12		ISI-OCN3-006	NDE-600	UT	CS	42.750		Steam Generator 3B Hot Leg to Reactor Vessel. Pipe Pc. 36 to SG3B Inlet Nozzle.
	Circumferential	50	O-ISIN4-100A-3.1				2.856		
Class A	Term end				Pipe to Nozzle				
B09.011.004A	3-PHB-12		ISI-OCN3-006	NDE-25	MT	CS	42.750		Steam Generator 3B Hot Leg to Reactor Vessel. Pipe Pc. 36 to SG3B Inlet Nozzle.
	Circumferential	50	O-ISIN4-100A-3.1				2.856		
Class A	Term end				Pipe to Nozzle				
B09.011.013	3-PIB1-7		ISI-OCN3-009	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3B1 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55. Perform UT from the Pipe Side and Safe End Side.
	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	
Class A	Dissimilar				Pipe to Safe End				
B09.011.013A	3-PIB1-7		ISI-OCN3-009	NDE-35	PT	SS-CS	33.500		Pump 3B1 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Dissimilar				Pipe to Safe End				
B09.011.016	3-PIB2-7		ISI-OCN3-010	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3B2 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55. Perform UT from the Pipe Side and Safe End Side.
	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	
Class A	Dissimilar				Pipe to Safe End				
B09.011.016A	3-PIB2-7		ISI-OCN3-010	NDE-35	PT	SS-CS	33.500		Pump 3B2 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Dissimilar				Pipe to Safe End				

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.025	3-PSL-1		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Pressurizer Surge Nozzle Safe End Pc. 37 to Elbow Pc. 80. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000		
Class A	Term end / Stress weld				Safe End to Elbow				
B09.011.025A	3-PSL-1		ISI-OCN3-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Pressurizer Surge Nozzle Safe End Pc. 37 to Elbow Pc. 80.
	Circumferential	50	O-ISIN4-100A-3.2				1.000		
Class A	Term end / Stress weld				Safe End to Elbow				
B09.011.032	3-PSL-8		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Pipe Pc. 84 to Elbow Pc. 80. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000		
Class A	Stress weld				Pipe to Elbow				
B09.011.032A	3-PSL-8		ISI-OCN3-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Pipe Pc. 84 to Elbow Pc. 80.
	Circumferential	50	O-ISIN4-100A-3.2				1.000		
Class A	Stress weld				Pipe to Elbow				
B09.011.034	3-PSP-3		ISI-OCN3-016	NDE-600	UT	SS	4.000	See Com	Pressurizer Spray Piping. Elbow Pc. 91 to Reducer Pc. 102. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			0.438		
Class A	Stress weld				Elbow to Reducer				
B09.011.034A	3-PSP-3		ISI-OCN3-016	NDE-35	PT	SS	4.000		Pressurizer Spray Piping. Elbow Pc. 91 to Reducer Pc. 102.
	Circumferential	50	O-ISIN4-100A-3.2				0.438		
Class A	Stress weld				Elbow to Reducer				
B09.011.044	3-53A-16-5		3-53A-16	NDE-600	UT	SS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.3	See Com			1.250		
Class A					Pipe to Elbow				
B09.011.044A	3-53A-16-5		3-53A-16	NDE-35	PT	SS	14.000		
	Circumferential	53A	O-ISIN4-102A-3.3				1.250		
Class A					Pipe to Elbow				

# CATEGORY B-J, Pressure Retaining Welds In Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.045	3-53A-17-12		3-53A-17	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.045A	3-53A-17-12		3-53A-17	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.046	3-53A-17-2		3-53A-17	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.046A	3-53A-17-2		3-53A-17	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.047	3-53A-17-4		3-53A-17	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.047A	3-53A-17-4		3-53A-17	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.052	3-53A-18-11		3-53A-18	PDI-UT-10	UT	SS-Inconel	12.000	40413	Decay Heat Nozzle Safe End. Inspect with B09.011.053.
	Circumferential	53A	O-ISIN4-102A-3.1				1.125		
Class A	Dissimilar				Pipe to Safe End				
B09.011.052A	3-53A-18-11		3-53A-18	NDE-35	PT	SS-Inconel	12.000		Decay Heat Nozzle Safe End. Inspect with B09.011.053A.
	Circumferential	53A	O-ISIN4-102A-3.1				1.125		
Class A	Dissimilar				Pipe to Safe End				
B09.011.053	3-PHA-17		ISI-OCN3-005	PDI-UT-10	UT	CS-Inconel	12.000	40413	Steam Generator 3A Hot Leg to Reactor Vessel. Decay Heat Nozzle Pc. 34 to Safe End Buttering. Inspect with B09.011.052.
	Circumferential	50	O-ISIN4-100A-3.1				1.125		
Class A	Dissimilar				Nozzle to Safe End Buttering				



**CATEGORY B-J, Pressure Retaining Welds In  
Piping**DUKE ENERGY CORPORATION  
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NPS 4 or Larger

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.053A 3-PHA-17			ISI-OCN3-005	NDE-35	PT	CS-Inconel	12.000		Steam Generator 3A Hot Leg to Reactor Vessel.
	Circumferential	50	O-ISIN4-100A-3.1				1.125		Decay Heat Nozzle Pc. 34 to Safe End Buttering.
Class A					Nozzle to				Inspect with B09.011.052A.
	Dissimilar				Safe End Buttering				
Total B09.011 Items:		26							

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

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**Less Than NPS 4**

Oconee 3

### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>*** Circumferential Welds ***</b>									
B09.021.004	3-PDA1-11		ISI-OCN3-011	NDE-35	PT	SS-CS	3.500		Pump 3A1 Discharge Piping. HPI Nozzle Pc. 46 to
	Circumferential	50	O-ISIN4-100A-3.1				0.750		Safe End Pc. 47.
	Class A					Nozzle to			
	Dissimilar					Safe End			
B09.021.005	3-PDA2-11		ISI-OCN3-012	NDE-35	PT	SS-CS	3.500		Pump 3A2 Discharge Piping. HPI Nozzle Pc. 46 to
	Circumferential	50	O-ISIN4-100A-3.1				0.750		Safe End Pc. 47.
	Class A					Nozzle to			
	Dissimilar					Safe End			
B09.021.008	3-PSP-11		ISI-OCN3-016	NDE-35	PT	SS	2.500		Pressurizer Spray Piping. Tee Pc. 106 to Valve Pc.
	Circumferential	50	O-ISIN4-100A-3.2				0.375		111.
	Class A					Tee to			
	Stress weld					Valve 3RC-001			
B09.021.018	3-PSP-8		ISI-OCN3-016	NDE-35	PT	SS	2.500		Pressurizer Spray Piping. Pipe Pc. 92 to Valve Pc.
	Circumferential	50	O-ISIN4-100A-3.2				0.375		110.
	Class A					Pipe to			
	Stress weld					Valve 3RC-003			
B09.021.019	3-51A-140-1		3-51A-140	NDE-35	PT	SS	3.000		Letdown Cooler 3B Outlet Nozzle.
	Circumferential	51A	O-ISIN4-101A-3.1				0.438		
	Class A					Nozzle to			
	Term end					Elbow			
B09.021.020	3-51A-140-29		3-51A-140	NDE-35	PT	SS	2.000		
	Circumferential	51A	O-ISIN4-101A-3.1				0.344		
	Class A					Reducer to			
						Pipe			
B09.021.021	3-51A-141-28		3-51A-141	NDE-35	PT	SS	3.000		Letdown Cooler 3A Outlet Nozzle.
	Circumferential	51A	O-ISIN4-101A-3.1				0.438		
	Class A					Pipe to			
	Term end					Nozzle			
B09.021.024	3-51A-143-18		3-51A-143	NDE-35	PT	SS	3.000		
	Circumferential	51A	O-ISIN4-101A-3.1				0.438		
	Class A					Reducer to			
						Elbow			

**CATEGORY B-J, Pressure Retaining Welds In Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Less Than NPS 4**

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## Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.021.025	3-51A-143-30		3-51A-143	NDE-35	PT	SS	3.000		Letdown Cooler 3A Inlet Nozzle.
	Circumferential	51A	O-ISIN4-101A-3.1				0.438		
Class A	Term end					Elbow to Nozzle			
B09.021.034	3HP-243-15		3HP-243	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-62-15 until iso 3-51A -62 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		
Class A						Pipe to Elbow			
B09.021.035	3RC-213-26		3RC-213	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-62-26 until iso 3-51A -62 was redrawn.
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		Inspect with G02.001.008D.
Class A	Stress weld					Pipe to Safe End			
B09.021.051	3-51A-69-26A		3-51A-69	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		
Class A						Pipe to Elbow			
B09.021.052	3-51A-69-29A		3-51A-69	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		
Class A						Elbow to Pipe			
B09.021.060	3HP-240-32		3HP-240	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		
Class A	Stress weld					Pipe to Valve 3HP-486			
B09.021.062	3-PSP-9		ISI-OCN3-016	NDE-35	PT	SS	2.500		Pressurizer Spray Piping. Valve Pc. 110 to Pipe Pc. 92.
	Circumferential	50	O-ISIN4-100A-3.2				0.375		
Class A	Stress weld					Valve 3RC-003 to Pipe			
Total B09.021 Items:		15							

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** NPS 4 or Larger ****									
B09.031.002	3-PHA-16		ISI-OCN3-005	NDE-600	UT	CS	25.000		Steam Generator 3A Hot Leg to Reactor Vessel.
	Branch	50	O-ISIN4-100A-3.1				2.875		Decay Heat Nozzle Pc. 34 to Pipe Pc. 32. NPS of
Class A					Nozzle to				the Decay Heat Nozzle = 12" Diameter and 1.125"
					Pipe				Thickness. The NPS of the branch line is 12".
B09.031.002A	3-PHA-16		ISI-OCN3-005	NDE-25	MT	CS	25.000		Steam Generator 3A Hot Leg to Reactor Vessel.
	Branch	50	O-ISIN4-100A-3.1				2.875		Decay Heat Nozzle Pc. 34 to Pipe Pc. 32. NPS of
Class A					Nozzle to				the Decay Heat Nozzle = 12" Diameter and 1.125"
					Pipe				Thickness. The NPS of the branch line is 12 inches.
Total B09.031 Items:		2							
**** Less Than NPS 4 ****									
B09.032.005	3-PDA2-10		ISI-OCN3-012	NDE-25	MT	CS	12.000		Pump 3A2 Discharge Piping. Pipe Pc. 44 to HPI
	Branch	50	O-ISIN4-100A-3.1				2.250		Nozzle Pc. 46. The NPS of the branch line is 2.5
Class A	Stress weld				Pipe to				inches.
					Nozzle				
B09.032.007	3-PDB1-12		ISI-OCN3-013	NDE-35	PT	SS	12.000		Pump 3B1 Discharge Piping. Safe End Pc. 49 to
	Branch	50	O-ISIN4-100A-3.1				2.500		Pressurizer Spray Nozzle Pc. 51. The NPS of the
Class A	Stress weld				Safe End to				branch line is 2.5 inches.
					Nozzle				
Total B09.032 Items:		2							

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

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## Socket Welds

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## Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
B09.040.003	3-50-152-28		3-50-152	NDE-35	PT	SS		1.500	
	Socket	50	O-ISIN4-100A-3.2					0.281	
Class A						Valve 3LP-131 to Pipe			
B09.040.008	3-51A-69-84		3-51A-69	NDE-35	PT	SS		2.000	
	Socket	51A	O-ISIN4-101A-3.1					0.344	
Class A						Pipe to Valve 3HP-1			
<b>Total B09.040 Items:</b>		<b>2</b>							
<b>Total B09 Items:</b>		<b>47</b>							

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

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## Pressure Vessels

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### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
B10.010.003	3-SGA-WG61		ISI-OCN3-003	NDE-25	MT	NA		135.000	Steam Generator 3A Support Skirt Pc.96 to Support
		50	O-ISIN4-100A-3.1					9.000	Skirt Forging Pc.9
Class A					Support Skirt Lug to				Head
Total B10.010 Items:		1							

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

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## Piping

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### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
B10.020.023	3-53-0-2478A-H3		3-56-03/sht.2	NDE-35	PT	NA		12.000	Calculation No. OSC-1339. Inspect with
	Hyd Snubber	53A	O-ISIN4-102A-3.1					0.280	F01.012.023.
	Class A								
Total B10.020 Items:		1							
Total B10 Items:		2							

**CATEGORY B-L-2, Pump Casings**

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**Pumps**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>**** Pump Casing ****</b>							
B12.020.001	3RCP-3A1-CASING	50	ISI-OCN3-007 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3A1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
	Class A						
B12.020.002	3RCP-3A2-CASING	50	ISI-OCN3-008 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3A2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
	Class A						
B12.020.003	3RCP-3B1-CASING	50	ISI-OCN3-009 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3B1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
	Class A						
B12.020.004	3RCP-3B2-CASING	50	ISI-OCN3-010 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3 SS	68.000 0.000	Reactor Coolant Pump 3B2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
	Class A						

Total B12.020 Items:

4



**CATEGORY B-M-1, Pressure Retaining Welds  
In Valve Bodies**DUKE ENERGY CORPORATION  
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**Inservice Inspection Plan for Interval 4 Outage 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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**\*\*\* Valves, Less Than NPS 4; Valve Body Welds \*\*\***

B12.030.001	3-51A-HP-126		OM-245-1910	NDE-35	PT	SS	2.500		Valve 3HP-126 Body to Bonnet Extension Weld.
	Circumferential	53	O-ISIN4-101A-3.4				0.000		Inspect one of the following
Class A					Body to				valve body welds: 3HP-126, 3HP-127, 3HP-152, or
					Bonnet Extension				3HP-153.

**Total B12.030 Items: 1**



**CATEGORY B-M-2, Valve Body****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
B12.050.008	3-53A-LP-2		OM-201-165	QAL-14	VT-3 SS	12.000	Decay Heat Suction Valve Body 3LP-2 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
		53	O-ISIN4-102A-3.1			0.000	
Class A							

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**Total B12.050 Items: 8**

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**Total B12 Items: 13**

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

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**Reactor Vessel**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>*** Vessel Interior ***</b>							
B13.010.001	3-RPV-INT-SUR		ISI-OCN3-001	See Com	VT-3 SS	0.000 0.000	Reactor Vessel Interior. Procedure # WDI-STD-088.

Class A

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**Total B13.010 Items: 1**

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**Total B13 Items: 1**



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

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## Piping

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### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.020.011	3-03-0-2481A-H15A Spring Hgr	03	3-03-07/sht.1 O-ISIN4-121B-3.3 O-2490B-3(S)	NDE-35	PT	NA	24.000 1.500		Calculation No. OSC-1335. Inspect with F01.022.011.
Class B									
C03.020.013	3-JWCA-1606	03	OM-2201-1451 O-ISIN4-121B-3.3 B&W-149824E	NDE-25	MT	CS	0.000 1.000		Steam Generator 3A Feedwater Header Support Attachment in Y-Z Quadrant. Attachment closest to Y-Axis.
Class B					Pc. 130 & 131 to Header				
C03.020.014	3-03A-2439A-LDD-3002 Rigid Support	03A	3-03A-08/sht.1 O-ISIN4-121D-3.1	NDE-35	PT	NA	6.000 0.500		Calculation No. OSC-525. Inspect with F01.020.014.
Class B									
C03.020.023	3-14B-0-2479A-H10 Rigid Restraint	14B	3-14B-14/sht.4 O-ISIN4-124B-3.2 O-3AB-314B14-04	NDE-35	PT	NA	6.000 0.750		Calculation No. OSC-2056. Inspect with F01.021.029.
Class B									
C03.020.031	3-20B-2485A-H5608 Rigid Restraint	20B	3-20B-01/sht.1 O-ISIN4-116A-3.1 O-3AB-320B01-01	NDE-35	PT	NA	48.000 0.500		Calculation No. OSC-3638. Inspect with F01.021.035.
Class B									
C03.020.055	3-53B-5-0-2436D-R3 Rigid Restraint	53B	3-53-04/sht.2 O-ISIN4-102A-3.2	NDE-35	PT	NA	10.000 1.000		Calculation No. OSC-551. Inspect with F01.021.062.
Class B									
Total C03.020 Items:		6							
Total C03 Items:		6							

**CATEGORY C-D, Pressure Retaining Bolting**  
**Greater Than 2 in. In Diameter**

**DUKE ENERGY CORPORATION**  
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## Pumps

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## Inservice Inspection Plan for Interval 4 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>									
C04.030.001	3-HPI-PUMP-3A		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3A (Casing bolts). The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B		51A	O-ISIN4-101A-3.3				0.000		
C04.030.002	3-HPI-PUMP-3B		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3B (Casing bolts). The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B		51A	O-ISIN4-101A-3.3				0.000		
C04.030.003	3-HPI-PUMP-3C		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3C (Casing bolts). The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B		51A	O-ISIN4-101A-3.3				0.000		
<b>Total C04.030 Items:</b>		<b>3</b>							
<b>Total C04 Items:</b>		<b>3</b>							

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

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

Oconee 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.011.008	3LP-132-6		3LP-132	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-24-6 until iso 3-53A-24 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B					Elbow to Pipe				
C05.011.008A	3LP-132-6		3LP-132	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-24-6 until iso 3-53A-24 was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B					Elbow to Pipe				
C05.011.009	3LP-132-7		3LP-132	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-24-7 until iso 3-53A-24 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B					Pipe to Elbow				
C05.011.009A	3LP-132-7		3LP-132	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-24-7 until iso 3-53A-24 was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B					Pipe to Elbow				
C05.011.013	3LP-132-21		3LP-132	NDE-600	UT	SS	10.000	See Com	This weld was previously listed as 3LP-132-9A; but due to an isometric revision deleted this weld. This weld is now 3LP-132-21. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B					Pipe to Elbow				
C05.011.013A	3LP-132-21		3LP-132	NDE-35	PT	SS	10.000		This weld was previously listed as 3LP-132-9A; but due to an isometric revision deleted this weld. This weld is now 3LP-132-21.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B					Pipe to Elbow				
C05.011.016	3LP-132-24		3LP-132	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B					Valve 3LP-17 to Elbow				



**CATEGORY C-F-1, Pressure Retaining Welds  
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**Piping Welds  $\geq$  3/8 in. Nominal Wall Thickness  
for Piping  $>$  NPS 4**

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.011.016A	3LP-132-24		3LP-132	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B					Valve 3LP-17 to Elbow				
C05.011.019	3LP-134-102		3LP-134	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B			O-ISIN4-102A-3.3		Pipe to Reducer				
C05.011.019A	3LP-134-102		3LP-134	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B			O-ISIN4-102A-3.3		Pipe to Reducer				
Total C05.011 Items:		10							

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.021.007	3-51A-118-19		3-51A-118	NDE-600	UT	SS		4.000	See Com Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com				0.531	
Class B					Pipe to Elbow				
C05.021.007A	3-51A-118-19		3-51A-118	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.4					0.531	
Class B					Pipe to Elbow				
C05.021.013	3-51A-119-13		3-51A-119	NDE-600	UT	SS		4.000	See Com Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com				0.531	
Class B					Elbow to Pipe				
C05.021.013A	3-51A-119-13		3-51A-119	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.4					0.531	
Class B					Elbow to Pipe				
C05.021.015	3-51A-119-3		3-51A-119	NDE-600	UT	SS		4.000	See Com Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com				0.531	
Class B					Tee to Pipe				
C05.021.015A	3-51A-119-3		3-51A-119	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.4					0.531	
Class B					Tee to Pipe				
C05.021.017	3-51A-120-16		3-51A-120	NDE-600	UT	SS		4.000	See Com Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com				0.531	
Class B					Pipe to Elbow				
C05.021.017A	3-51A-120-16		3-51A-120	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.4					0.531	
Class B					Pipe to Elbow				

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

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.019	3-51A-120-4		3-51A-120	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.019A	3-51A-120-4		3-51A-120	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.024	3-51A-140-25		3-51A-140	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Reducer to Elbow		0.375		
C05.021.024A	3-51A-140-25		3-51A-140	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Reducer to Elbow		0.375		
C05.021.031	3HP-436-17		3HP-436	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-50-17 on iso 3-51A-50 until it was transferred to iso 3HP-436. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.3	See Com	Reducer to Elbow		0.237		
C05.021.031A	3HP-436-17		3HP-436	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-50-17 on iso 3-51A-50 until it was transferred to iso 3HP-436.
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.3		Reducer to Elbow		0.237		
C05.021.032	3HP-433-69		3HP-433	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-50-69 on iso 3-51A-50 until it was transferred to iso 3HP-433. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Reducer to Elbow		0.237		
C05.021.032A	3HP-433-69		3HP-433	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-50-69 on iso 3-51A-50 until it was transferred to iso 3HP-433.
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Reducer to Elbow		0.237		

# **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 >=**

Oconee 3

**NPS 2 and <= NPS 4****Inservice Inspection Plan for Interval 4 Outage 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.040	3-51A-52-46		3-51A-52	NDE-600	UT	SS	3.000	See Com	HPI Pump 3A. (Outlet Side) Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.3	See Com			0.438		
					Elbow to Flange				
C05.021.040A	3-51A-52-46		3-51A-52	NDE-35	PT	SS	3.000		HPI Pump 3A. (Outlet Side)
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.3				0.438		
					Elbow to Flange HPI Pump 3A Outlet				
C05.021.041	3-51A-52-67		3-51A-52	NDE-600	UT	SS	4.000	See Com	HPI Pump 3B. (Outlet Side) Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.3	See Com			0.531		
					Elbow to Flange HPI Pump 3B Outlet				
C05.021.041A	3-51A-52-67		3-51A-52	NDE-35	PT	SS	4.000		HPI Pump 3B. (Outlet Side)
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.3				0.531		
					Elbow to Flange HPI Pump 3B Outlet				
C05.021.043	3-51A-59-12C		3-51A-59	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
					Pipe to Tee				
C05.021.043A	3-51A-59-12C		3-51A-59	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
					Pipe to Tee				
C05.021.050	3HP-365-40		3HP-365	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-66-40 on iso 3-51A-66 until it was transferred to iso 3HP-365. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
					Valve 3HP-27 to Elbow				
C05.021.050A	3HP-365-40		3HP-365	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-66-40 on iso 3-51A-66 until it was transferred to iso 3HP-365.
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
					Valve 3-HP-27 to Elbow				

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.054	3-51A-67-28		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
					Elbow to Pipe				
C05.021.054A	3-51A-67-28		3-51A-67	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
					Elbow to Pipe				
C05.021.055	3-51A-67-34		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
					Elbow to Pipe				
C05.021.055A	3-51A-67-34		3-51A-67	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
					Elbow to Pipe				
C05.021.064	3-51A-87-54A		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Valve 3HP-130 to Pipe				
C05.021.064A	3-51A-87-54A		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Valve 3HP-130 to Pipe				
C05.021.065	3-51A-87-7		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Pipe to Tee				
C05.021.065A	3-51A-87-7		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
					Pipe to Tee				
C05.021.074	3-51A-118-12		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
					Pipe to Elbow				

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

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.021.074A	3-51A-118-12		3-51A-118	NDE-35	PT	SS		4.000		
	Circumferential	51A	O-ISIN4-101A-3.4					0.531		
Class B					Pipe to Elbow					
C05.021.078	3-51A-120-25		3-51A-120	NDE-600	UT	SS		4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com				0.531		
Class B					Elbow to Pipe					
C05.021.078A	3-51A-120-25		3-51A-120	NDE-35	PT	SS		4.000		
	Circumferential	51A	O-ISIN4-101A-3.4					0.531		
Class B					Elbow to Pipe					
C05.021.084	3-51A-50-84		3-51A-50	NDE-600	UT	SS		4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.2	See Com				0.237		
Class B					Elbow to Pipe					
C05.021.084A	3-51A-50-84		3-51A-50	NDE-35	PT	SS		4.000		
	Circumferential	51A	O-ISIN4-101A-3.2					0.237		
Class B					Elbow to Pipe					
C05.021.089	3HP-312-V2		3HP-312	NDE-600	UT	SS		2.500	See Com	This weld was originally listed as 3-51A-59-32, until isometric 3-51A-59 was redrawn as 3HP-312. This weld was previously listed as 3HP-312-32, until isometric 3HP-312 was revised and deleted weld 32 and remade it as V2; which is a vendor weld. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com				0.375		
Class B					Valve 3HP-120 to Pipe					
C05.021.089A	3HP-312-V2		3HP-312	NDE-35	PT	SS		2.500		This weld was originally listed as 3-51A-59-32, until isometric 3-51A-59 was redrawn as 3HP-312. This weld was previously listed as 3HP-312-32, until isometric 3HP-312 was revised and deleted weld 32 and remade it as V2; which is a vendor weld.
	Circumferential	51A	O-ISIN4-101A-3.4					0.375		
Class B					Valve 3HP-120 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 3

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIAT/THK	CAL BLOCKS	COMMENTS
C05.021.093	3-51A-67-60		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Pipe to Tee		0.375		
C05.021.093A	3-51A-67-60		3-51A-67	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Pipe to Tee		0.375		
C05.021.094	3-51A-77-14		3-51A-77	NDE-600	UT	SS	2.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Reducer to Pipe		0.436		
C05.021.094A	3-51A-77-14		3-51A-77	NDE-35	PT	SS	2.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Reducer to Pipe		0.436		
C05.021.099	3-51A-117-1		3-51A-117	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Tee to Pipe		0.531		
C05.021.099A	3-51A-117-1		3-51A-117	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Tee to Pipe		0.531		
C05.021.100	3-51A-117-15		3-51A-117	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Pipe to Elbow		0.531		
C05.021.100A	3-51A-117-15		3-51A-117	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Pipe to Elbow		0.531		
C05.021.101	3-51A-117-3A		3-51A-117	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Elbow to Flrow		0.531		

**CATEGORY C-F-1, Pressure Retaining Welds  
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**Oconee 3**

**NPS 2 and <= NPS 4**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.101A	3-51A-117-3A		3-51A-117	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.3					0.531	
Class B					Elbow to Elbow				
C05.021.102	3-51A-117-9		3-51A-117	NDE-600	UT	SS		4.000	See Com
	Circumferential	51A	O-ISIN4-101A-3.3	See Com				0.531	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Pipe to Elbow				
C05.021.102A	3-51A-117-9		3-51A-117	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.3					0.531	
Class B					Pipe to Elbow				
C05.021.103	3-51A-53-11		3-51A-53	NDE-600	UT	SS		4.000	See Com
	Circumferential	51A	O-ISIN4-101A-3.3	See Com				0.531	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Pipe to Elbow				
C05.021.103A	3-51A-53-11		3-51A-53	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.3					0.531	
Class B					Pipe to Elbow				
C05.021.104	3-51A-53-26		3-51A-53	NDE-600	UT	SS		4.000	See Com
	Circumferential	51A	O-ISIN4-101A-3.3	See Com				0.531	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Elbow to Elbow				
C05.021.104A	3-51A-53-26		3-51A-53	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.3					0.531	
Class B					Elbow to Elbow				
C05.021.105	3-51A-53-4		3-51A-53	NDE-600	UT	SS		4.000	See Com
	Circumferential	51A	O-ISIN4-101A-3.3	See Com				0.531	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Elbow to Pipe				
C05.021.105A	3-51A-53-4		3-51A-53	NDE-35	PT	SS		4.000	
	Circumferential	51A	O-ISIN4-101A-3.3					0.531	
Class B					Elbow to Pine				



**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 3**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.106	3-51A-53-9		3-51A-53	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Elbow to Pipe		0.531		
C05.021.106A	3-51A-53-9		3-51A-53	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.3		Elbow to Pipe		0.531		
C05.021.107	3-51A-58-12		3-51A-58	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Tee to Pipe		0.531		
C05.021.107A	3-51A-58-12		3-51A-58	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Tee to Pipe		0.531		
C05.021.108	3-51A-58-19A		3-51A-58	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Tee to Pipe		0.375		
C05.021.108A	3-51A-58-19A		3-51A-58	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Tee to Pipe		0.375		

**Total C05.021 Items: 64**

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

**Socket Welds**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.030.004	3-51B-57-25A		3-51B-57	NDE-35	PT	SS		2.000	
	Socket	51B	O-ISIN4-101A-3.1					0.154	
	Class B				Elbow to				Pipe

Total C05.030 Items: 1

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

DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
Inservice Inspection Database Management System

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

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Inservice Inspection Plan for Interval 4 Outage 4

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.051.007	3MS-20B-B		3MS-119	NDE-600	UT	CS	24.000	See Com	Grinnell Subassembly 3MS-20B. This subassembly weld was listed on iso 3-01A-17 until it was transferred to iso 3MS-119. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	01A	O-ISIN4-122A-3.1	See Com			0.969		
Class B			3MS-20B		Pipe Reducing Y Fitting to Elbow				
C05.051.007A	3MS-20B-B		3MS-119	NDE-25	MT	CS	24.000		Grinnell Subassembly 3MS-20B This subassembly weld was listed on iso 3-01A-17 until it was transferred to iso 3MS-119.
	Circumferential	01A	O-ISIN4-122A-3.1				0.969		
Class B			3MS-20B		Pipe Reducing Y Fitting to Elbow				
C05.051.008	3MS-118-4		3MS-118	NDE-600	UT	CS	12.000	See Com	This weld was listed previously as 3-01A-17-4 on iso 3-01A-17 until it was transferred to iso 3MS-118. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	01A	O-ISIN4-122A-3.1	See Com			0.562		
Class B					Pipe to Elbow				
C05.051.008A	3MS-118-4		3MS-118	NDE-25	MT	CS	12.000		This weld was listed previously as 3-01A-17-4 on iso 3-01A-17 until it was transferred to iso 3MS-118.
	Circumferential	01A	O-ISIN4-122A-3.1				0.562		
Class B					Pipe to Elbow				
C05.051.018	3FWD-62-B		3-03-28	NDE-600	UT	CS	20.000	See Com	Grinnell Subassembly 3FWD-62 Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	03	O-ISIN4-121B-3.3	See Com			1.031		
Class B			3FWD-62		Elbow to Pipe				
C05.051.018A	3FWD-62-B		3-03-28	NDE-25	MT	CS	20.000		Grinnell Subassembly 3FWD-62
	Circumferential	03	O-ISIN4-121B-3.3				1.031		
Class B			3FWD-62		Elbow to Pipe				
C05.051.030	3-14B-116-56		3-14B-116	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.432		
Class B					Tee to Flange				

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

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

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Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.051.030A	3-14B-116-56		3-14B-116	NDE-25	MT	CS	6.000			
	Circumferential	14B	O-ISIN4-124B-3.2				0.432			
Class B					Tee to Flange					
C05.051.031	3-14B-116-57		3-14B-116	NDE-600	UT	CS	6.000		See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.432			
Class B					Flange to Flange					
C05.051.031A	3-14B-116-57		3-14B-116	NDE-25	MT	CS	6.000			
	Circumferential	14B	O-ISIN4-124B-3.2				0.432			
Class B					Flange to Flange					
C05.051.032	3LPS-521-2		3LPS-521	NDE-600	UT	CS	8.000		See Com	This weld was listed previously as 3-14B-117-47A until iso 3-14B-117 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500			Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Elbow					
C05.051.032A	3LPS-521-2		3LPS-521	NDE-25	MT	CS	8.000			
	Circumferential	14B	O-ISIN4-124B-3.2				0.500			
Class B					Pipe to Elbow					
C05.051.033	3LPS-478-10		3LPS-478	NDE-600	UT	CS	8.000		See Com	This weld was listed previously as 3-14B-119-10 until iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500			Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Elbow					
C05.051.033A	3LPS-478-10		3LPS-478	NDE-25	MT	CS	8.000			This weld was listed previously as 3-14B-119-10 until iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2				0.500			
Class B					Pipe to Elbow					
C05.051.038	3LPS-477-52		3LPS-477	NDE-600	UT	CS	8.000		See Com	This weld was listed previously as 3-14B-119-52 until iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500			Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of
Class B					Pipe to Flange					

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

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### Piping Welds $\geq 3/8$ in. Nominal Wall Thickness for Piping $> \text{NPS } 4$

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### Inservice Inspection Plan for Interval 4 Outage 4

<b>ITEM NUMBER</b>	<b>ID NUMBER</b>	<b>SYS ISO/DWG NUMBERS</b>	<b>PROC</b>	<b>INSP REQ MAT/SCH DIA/THK CAL BLOCKS</b>	<b>COMMENTS</b>
C05.051.038A Class B	3LPS-477-52 Circumferential	14B O-ISIN4-124B-3.2	NDE-25	MT CS  Pipe to Flange	This weld was listed previously as 3-14B-119-52 until iso 3-14B-119 was redrawn.
C05.051.046 Class B	3-20B-21-18-18 Circumferential	20B O-ISIN4-116A-3.1	NDE-600 See Com	UT CS  Pipe to Valve 3PR-2	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
C05.051.046A Class B	3-20B-21-18-18 Circumferential	20B O-ISIN4-116A-3.1	NDE-25	MT CS  Pipe to Valve 3PR-2	
C05.051.050 Class B	3FDW-268-46V Circumferential	03 O-ISIN4-121B-3.3	NDE-600 See Com	UT CS  Pipe to Elbow	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
C05.051.050A Class B	3FDW-268-46V Circumferential	03 O-ISIN4-121B-3.3	NDE-25	MT CS  Pipe to Elbow	
C05.051.051 Class B	3-03-27-10 Circumferential	03 O-ISIN4-121B-3.3	NDE-600 See Com	UT CS  Elbow to Pipe	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
C05.051.051A Class B	3-03-27-10 Circumferential	03 O-ISIN4-121B-3.3	NDE-25	MT CS  Elbow to Pipe	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
<b>Total C05.051 Items:</b>		<b>22</b>			
<b>Total C05 Items:</b>		<b>97</b>			

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

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## Piping

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### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
D01.020.025	3-03A-1-0-2439B-H180		3-03A-07/sht.1	QAL-13	VT-1	NA		6.000	Calculation No. OSC-524. Inspect with F01.030.026.
	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
Class C									
D01.020.026	3-03A-1-0-2400A-H118		3-03A-09/sht.1	QAL-13	VT-1	NA		6.000	Calculation No. OSC-526. Inspect with F01.030.028.
	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
Class C									
D01.020.027	3-03A-1-0-2400A-H130		3-03A-09/sht.1	QAL-13	VT-1	NA		6.000	Calculation No. OSC-526. Inspect with F01.030.029.
	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
Class C									
D01.020.071	3-14B-2437A-WM-7002		3-03A-13/sht.2	QAL-13	VT-1	NA		6.000	Calculation No. OSC-1224-23. Inspect with F01.030.101.
	Rigid Support	14B	O-ISIN4-121D-1.2					0.500	
Class C									
Total D01.020 Items:		4							
Total D01 Items:		4							

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### Class 1 Piping Supports

### Oconee 3

## Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Category A, One-Directional ****</b>									
F01.010.013	3-51A-0-2479A-H4A		3-53-10/sht.4	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1343-06 Vol.B. H.P.I. East
	Rigid Support	51A	O-ISIN4-101A-3.4					0.375	Coolant Loop.
Class A			O-3RB-35310-04						
<b>Total F01.010 Items: 1</b>									
<b>**** Category B, Multi-Directional ****</b>									
F01.011.024	3-53-0-2478A-H2		3-56-03/sht.2	QAL-14	VT-3	NA		12.000	Calculation No. OSC-1339-06.
	Rigid Restraint	53A	O-ISIN4-102A-3.1					0.250	
Class A									
<b>Total F01.011 Items: 1</b>									
<b>**** Category C, Thermal Movement ****</b>									
F01.012.023	3-53-0-2478A-H3		3-56-03/sht.2	QAL-14	VT-3	NA		12.000	Calculation No. OSC-1339. Inspect with
	Hyd Snubber	53A	O-ISIN4-102A-3.1					0.280	B10.020.023.
Class A									
F01.012.031	3-57-0-2481A-EWD-H1701		3-57-01/sht.1	QAL-14	VT-3	NA		4.000	Calculation No. OSC-1351-06. Located on valve
	Spring Hgr	57	O-ISIN4-100A-3.2					0.000	actuator do not select.
Class A									
<b>Total F01.012 Items: 2</b>									

**CATEGORY F-A, Supports**

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**Class 2 Piping Supports**

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
<b>**** Category A, One-Directional ****</b>							
F01.020.012	3-03-0-2480A-H6A		3-03-07/sht.2	QAL-14	VT-3 NA	24.000	Calculation No. OSC-1335.
	Rigid Support	03	O-ISIN4-121B-3.3			0.500	
Class B			O-2490B-4(S)				
F01.020.014	3-03A-2439A-LDD-3002		3-03A-08/sht.1	QAL-14	VT-3 NA	6.000	Calculation No. OSC-525. Inspect with
	Rigid Support	03A	O-ISIN4-121D-3.1			0.500	C03.020.014.
Class B							
F01.020.021	3-14B-1-0-2439A-SR20		3-03A-05/sht.1	QAL-14	VT-3 NA	6.000	Calculation No. OSC-517.
	Rigid Restraint	14B	O-ISIN4-121D-3.1			0.000	
Class B							
F01.020.024	3-14-0-2478F-H6025		3-03A-14/sht.2	QAL-14	VT-3 NA	6.000	Calculation No. OSC-1224-18.
	Rigid Support	14	O-ISIN4-121D-3.1			0.000	
Class B			O-3RB-303A14-02				
F01.020.031	3-51A-1-0-2435D-DE034		3-51-02/sht.4	QAL-14	VT-3 NA	6.000	Calculation No. OSC-539.
	Rigid Support	51A	O-ISIN4-101A-3.3			0.000	
Class B			O-3AB-35102-04				
F01.020.032	3-51A-1-0-2435D-H134		3-51-02/sht.4	QAL-14	VT-3 NA	6.000	Calculation No. OSC-539.
	Rigid Support	51A	O-ISIN4-101A-3.3			0.000	
Class B			O-3AB-35102-04				
F01.020.033	3-51A-1-0-2435D-H156		3-51-02/sht.4	QAL-14	VT-3 NA	6.000	Calculation No. OSC-539.
	Rigid Support	51A	O-ISIN4-101A-3.3			0.125	
Class B			O-3AB-35102-04				
F01.020.047	3-51B-2-0-2436C-H18		3-51-01/sht.4	QAL-14	VT-3 NA	2.000	Calculation No. OSC-538 Part "A".
	Rigid Support	51B	O-ISIN4-101A-3.2			0.000	
Class B							



### CATEGORY F-A, Supports

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## Class 2 Piping Supports

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### Inservice Inspection Plan for Interval 4 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.020.073	3-53B-0-2436D-WF1000 Rigid Support	53B	3-53-06/sht.1 O-ISIN4-102A-3.2	QAL-14	VT-3	NA		8.000 0.000	Calculation No. OSC-552.
Class B									
F01.020.076	3-53B-2-0-2435B-SR23 Rigid Support	53B	3-53-01/sht.1 O-ISIN4-103A-3.1 O-3AB-35301-01	QAL-14	VT-3	NA		14.000 0.125	Calculation No. OSC-549.
Class B									
F01.020.081	3-54A-2-0-2435B-SR21 Rigid Support	54A	3-53-01/sht.1 O-ISIN4-102A-3.1 O-3AB-35301-01	QAL-14	VT-3	NA		10.000 0.280	Calculation No. OSC-549.
Class B									
F01.020.086	3-54A-3-0-2439A-SR13 Rigid Support	54A	3-54-03/sht.1 O-ISIN4-103A-3.1	QAL-14	VT-3	NA		8.000 0.000	Calculation No. OSC-556.
Class B									
<b>Total F01.020 Items:</b>		<b>12</b>							
<b>**** Category B, Multi-Directional ****</b>									
F01.021.023	3-14B-0-2479A-H19D Rigid Restraint	14B	3-14B-09/sht.1 O-ISIN4-124B-3.2	QAL-14	VT-3	NA		8.000 1.500	Calculation No. OSC-1344-06. This support can be found on hanger sketch 3-14B-0-2479A-H19.
Class B									
F01.021.029	3-14B-0-2479A-H10 Rigid Restraint	14B	3-14B-14/sht.4 O-ISIN4-124B-3.2 O-3AB-314B14-04	QAL-14	VT-3	NA		6.000 0.750	Calculation No. OSC-2056. Inspect with C03.020.023.
Class B									
F01.021.035	3-20B-2485A-H5608 Rigid Restraint	20B	3-20B-01/sht.1 O-ISIN4-116A-3.1 O-3AB-320B01-01	QAL-14	VT-3	NA		48.000 0.500	Calculation No. OSC-3638.
Class B									
F01.021.052	3-51B-2-0-2436C-H9 Rigid Restraint	51B	3-51-01/sht.1 O-ISIN4-101A-3.1	QAL-14	VT-3	NA		4.000 0.000	Calculation No. OSC-538 Part "A".
Class B									

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.021.056	3-51B-3-0-2436G-H44		3-51-01/sht.2	QAL-14	VT-3	NA		3.000	Calculation No. OSC-538 Part "A".
	Rigid Restraint	51B	O-ISIN4-101A-3.2					0.000	
Class B									
F01.021.062	3-53B-5-0-2436D-R3		3-53-04/sht.2	QAL-14	VT-3	NA		10.000	Calculation No. OSC-551. Inspect with C03.020.055.
	Rigid Restraint	53B	O-ISIN4-102A-3.2					1.000	
Class B									
F01.021.066	3-53B-6-0-2438B-H111		3-53-04/sht.1	QAL-14	VT-3	NA		8.000	Calculation No. OSC-551.
	Rigid Restraint	53B	O-ISIN4-102A-3.1					0.125	
Class B									
F01.021.083	3-54A-3-0-2435B-H53		3-54-03/sht.1	QAL-14	VT-3	NA		8.000	Calculation No. OSC-554.
	Rigid Restraint	54A	O-ISIN4-103A-3.1					0.500	
Class B									
F01.021.084	3-54A-3-0-2444-SR11		3-54-03/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-556.
	Rigid Restraint	54A	O-ISIN4-103A-3.1					0.000	
Class B									
Total F01.021 Items:		9							
**** Category C, Thermal Movement ****									
F01.022.008	3-01A-0-2480A-H7B		3-01-07/sht.1	QAL-14	VT-3	CS		26.000	Calculation No. OSC-1334-06.
	Constant Support	01A	O-ISIN4-122A-3.1					0.750	
Class B			O-2490A-2(S)						
F01.022.011	3-03-0-2481A-H15A		3-03-07/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-1335. Inspect with
	Spring Hgr	03	O-ISIN4-121B-3.3					1.500	C03.020.011.
Class B			O-2490B-3(S)						
Total F01.022 Items:		2							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.030.026	3-03A-1-0-2439B-H180		3-03A-07/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-524. Inspect with
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	D01.020.025.
F01.030.028	3-03A-1-0-2400A-H118		3-03A-09/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526. Inspect with
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	D01.020.026.
F01.030.029	3-03A-1-0-2400A-H130		3-03A-09/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526. Inspect with
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	D01.020.027.
F01.030.036	3-03A-1-0-2400A-H120		3-03A-09/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
F01.030.038	3-03A-1-0-2400B-H147		3-03A-12/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1209.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.500	
F01.030.039	3-03A-1-0-2439C-H5		3-03A-13/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1224-23.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.375	
F01.030.062	3-07A-6-0-2400A-H68		3-07-01/sht.1	QAL-14	VT-3	NA		12.000	Calculation No. OSC-1211.
Class C	Rigid Support	07A	O-ISIN4-121A-3.8					0.000	
F01.030.069	3-07A-2400A-HTT-H312		3-07-01/sht.2	QAL-14	VT-3	NA		24.000	Calculation No. OSC-521.
Class C	Rigid Support	07A	O-ISIN4-121A-3.7					0.000	

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.030.101	3-14B-2437A-WM-7002		3-03A-13/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1224-23. Inspect with
	Rigid Support	14B	O-ISIN4-121D-1.2					0.500	D01.020.071.
Class C									

F01.030.134	2-WL-100A-K0031		K-ISIN4-100A-2.1	QAL-14	VT-3	NA		8.000	Calc.# KC-0111,Page 30
	Rigid Support	WL						0.375	Problem # 0-WL-01 sht. 1 of 1. Keowee Unit 2.
Class C									

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Total F01.030 Items: 10
**\*\*\*\* Category B, Multi-Directional \*\*\*\***

F01.031.021	3-03A-1-0-2401A-SR17		3-03A-04/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-516.
	Rigid Restraint	03A	O-ISIN4-121D-3.1					1.000	
Class C									

F01.031.071	3-13-0-2400B-MLM-2101		3-13-07/sht.1	QAL-14	VT-3	NA		30.000	Calculation No. OSC-523.
	Rigid Restraint	13	O-ISIN4-133A-3.2					0.000	
Class C									

F01.031.081	3-14B-6-0-2438B-SR7		3-03A-13/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1224-23.
	Rigid Restraint	14B	O-ISIN4-121D-1.2					1.000	
Class C									

F01.031.082	3-14B-6-0-2438B-SR8		3-03A-13/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1224-23.
	Rigid Restraint	14B	O-ISIN4-121D-1.2					1.000	
Class C									

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Total F01.031 Items: 4

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**** Class 1, 2, and 3 ****									
F01.040.020	3-RBS-PU-A	54	0M 201-0427 O-ISIN4-103A-3.1 OM 1201-1121	QAL-14	VT-3	NA		0.000 0.000	Reactor Building Spray Pump 3A Support Legs & Pad.
Class B									
F01.040.023	2-GOV-OIL-PRES-TK	WL	KM 200-158 K-ISIN4-105A-2.1	QAL-14	VT-3	NA		0.000 0.000	Governor Oil Pressure Tank Support. Keowee Unit 2.
Class C									
F01.040.024	2-GOV-OIL-PUMP-A	WL	KM 200-158 K-ISIN4-105A-2.1	QAL-14	VT-3	NA		0.000 0.000	Governor Oil Pump A Support. Keowee Unit 2.
Class C									
F01.040.027	3-LS-TANK	51A	0M 2201-14 O-ISIN4-101A-3.2	QAL-14	VT-3	NA		0.000 0.000	Letdown Storage Tank Support.
Class B									
F01.040.032	3-50-RCPM-3A1-SS3	50	0-1066A O-ISIN4-100A-3.1 O-ISIN4-100A-3.3	QAL-14	VT-3	NA		6.000 0.000	Calclaton No. OSC-1011-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIPO-096-1575.
Class A									
F01.040.036	3-BWS-TANK	53	0M-2201-0832 O-ISIN4-102A-3.1	QAL-14	VT-3	NA		0.000 0.000	Borated Water Storage Tank Support.
Class B									
Total F01.040 Items:		6							
Total F01 Items:		47							

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G01.001.001	3-RCP-3A1		OM-201D-038	NDE-900	UT	CS		72.000	Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.001A3-RCP-3A1			OM-201D-038	NDE-25	MT	CS		72.000	Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.002	3-RCP-3A2		OM-201D-038	NDE-900	UT	CS		72.000	Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.002A3-RCP-3A2			OM-201D-038	NDE-25	MT	CS		72.000	Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.003	3-RCP-3B1		OM-201D-038	NDE-900	UT	CS		72.000	Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.003A3-RCP-3B1			OM-201D-038	NDE-25	MT	CS		72.000	Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.004	3-RCP-3B2		OM-201D-038	NDE-900	UT	CS		72.000	Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
G01.001.004A3-RCP-3B2			OM-201D-038	NDE-25	MT	CS		72.000	Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500	
Class A									
Total G01.001 Items:		8							
Total G01 Items:		8							

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G02.001.005A3-PDA1-46			ISI-OCN3-011	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3A1 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.005B3-PDA2-46			ISI-OCN3-012	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3A2 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.005C3-PDB1-46			ISI-OCN3-013	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3B1 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.005D3-PDB2-46			ISI-OCN3-014	NDE-690	UT	CS		3.500 40410	Reference Section 7 of the ISI Plan, Volume 1. 3B2 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597					2.500 40350	
G02.001.006A3-PDA1-11			ISI-OCN3-011	NDE-995	UT	SS-Inconel		3.500 40416	Reference Section 7 of the ISI Plan, Volume 1. 3A1 Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10				0.750 Component	
						Make Up Nozzle, PC 46 to Safe End, PC 47			

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G02.001.006B3-PDA2-11			ISI-OCN3-012	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3A2
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.006C3-PDB1-11			ISI-OCN3-013	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3B1
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.006D3-PDB2-11			ISI-OCN3-014	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3B2
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.007A3-PDA1-47			ISI-OCN3-011	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up Nozzle 3A1.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.007B3-PDA2-47			ISI-OCN3-012	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up Nozzle 3A2.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.



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									scheduling the fourth interval.	
G02.001.007C3-PDB1-47			ISI-OCN3-013	NDE-995	UT	SS		3.500	Component	Reference Section 7 of the ISI Plan, Volume 1.
Class A	51A		O-ISIN4-100A-3.1					0.750		Safe End PC 47 adjoining HPI Nozzle 3B1. Perform
			OM-201-597							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 17, 19 & 21
										for the third interval. This schedule cannot be
										changed. Check with Engineering prior to
										scheduling the fourth interval.
G02.001.007D3-PDB2-47			ISI-OCN3-014	NDE-995	UT	SS		3.500	Component	Reference Section 7 of the ISI Plan, Volume 1.
Class A	51A		O-ISIN4-100A-3.1					0.750		Safe End PC 47 adjoining HPI Nozzle 3B2. Perform
			OM-201-597							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 17, 19 & 21
										for the third interval. This schedule cannot be
										changed. Check with Engineering prior to
										scheduling the fourth interval.
G02.001.008A3RC-211-64			3RC-211	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1.
Class A	51A		O-ISIN4-100A-3.1					0.375		Make-Up Nozzle 3A1. Perform UT on weld
			OM-201-597							3RC-211-64 and adjoining base metal out to weld
										3RC-211-54 (at valve 3HP-127). Perform UT
										examination during outages 17, 19 & 21 for the third
										interval. This schedule cannot be changed. Check
										with Engineering prior to scheduling the fourth
										interval.
										Inspect this weld at the same time item number
										G04.001.027 is inspected.
										Note: The inspection performed for the G02 item
										number will be sufficient to meet the requirements
										for the G04 inspection.
G02.001.008B3RC-210-24A			3RC-210	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1.
Class A	51A		O-ISIN4-100A-3.1					0.375		Make-Up Nozzle 3A2. Perform UT on weld
			OM-201-597							3RC-210-24A and adjoining base metal out to weld
										3RC-210-31 (at valve 3HP-126). Perform UT
										examination during outages 17, 19 & 21 for the third
										interval. This schedule cannot be changed. Check

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.008C3RC-212-52  Class A	51A		3RC-212 O-ISIN4-100A-3.1 OM-201-597	NDE-995	UT	SS		2.500 Component 0.375	with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.0024 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.008D3RC-213-26  Class A	51A		3RC-213 O-ISIN4-100A-3.1 OM-201-597	NDE-995	UT	SS		2.500 Component 0.375	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-52 and adjoining base metal out to weld 3RC-212-45 (at valve 3HP-153). There is a circumferential weld located between weld 3RC-212-52 and 3RC-212-45. This weld (3RC-212-43C) will be documented as item number G02.001.009B. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. 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.
G02.001.009B3RC-212-43C  Class A	51A		3RC-212 O-ISIN4-100A-3.1 OM-201-597	NDE-995	UT	SS		2.500 Component 0.375	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. Perform UT on weld 3RC-213-26 and adjoining base metal out to weld 3RC-213-27 (at valve 3HP-152). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.005 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.009B3RC-212-43C  Class A	51A		3RC-212 O-ISIN4-100A-3.1 OM-201-597	NDE-995	UT	SS		2.500 Component 0.375	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-43C. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
										changed. Check with Engineering prior to scheduling the fourth interval. 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.
G02.001.010A3RC-211-54			3RC-211	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Make Up Nozzle 3A1. Perform UT on weld 3RC-211-54 (at valve 3HP-127). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.026 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1					0.375		
			OM-201-597		Pipe to				Valve 3HP-127	
G02.001.010B3RC-210-31			3RC-210	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Make Up Nozzle 3A2. Perform UT on weld 3RC-210-31 (at valve 3HP-126). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.025 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1					0.375		
			OM-201-597		Pipe to				Valve 3HP-126	
G02.001.010C3RC-212-45			3RC-212	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-45 (at valve 3HP-153). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.001 is inspected.
Class A	51A		O-ISIN4-100A-3.1					0.375		
			OM-201-597		Pipe to				Valve 3HP-153	

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Note: The inspection performed for the G02 Item number will be sufficient to meet the requirements for the G04 inspection.									
G02.001.010D3RC-213-27	51A		3RC-213	NDE-995	UT	SS		2.500	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. Perform UT on weld 3RC-213-27 (at valve 3HP-152). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. 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.
Class A			O-ISIN4-100A-3.1 OM-201-597		Pipe to Valve 3HP-152		0.375		
G02.001.011A3A1-THERM SLEEVE	51A		ISI OCN3-011	NDE-105	RT	SS		3.500	Reference Section 7 of the ISI Plan, Volume 1. Make UP Nozzle 3A1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A			O-ISIN4-100A-3.1 OM-201-597				0.750		
G02.001.011B3A2-THERM SLEEVE	51A		ISI OCN3-012	NDE-105	RT	SS		3.500	Reference Section 7 of the ISI Plan, Volume 1. Make UP Nozzle 3A2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A			O-ISIN4-100A-3.1 OM-201-597				0.750		
G02.001.011C3B1-THERM SLEEVE	51A		ISI OCN3-013	NDE-105	RT	SS		3.500	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A			O-ISIN4-100A-3.1 OM-201-597				0.750		

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G02.001.011D3B2-THERM SLEEVE			ISI OCN3-014	NDE-105	RT	SS		3.500	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
		51A	O-ISIN4-100A-3.1					0.750	
Class A			OM-201-597						

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**Total G02.001 Items: 25**

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**Total G02 Items: 25**

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G03.001.001	3PSL-11		3-50-19	NDE-35	PT	SS	1.000		Reference Section 7 Paragraph 7.1.3 of the ISI Plan - Volume 1.
	Circumferential	50	ISI-OCN3-015				0.250		
Class A			O-ISIN4-100A-3.2		Nozzle to Pipe				
Total G03.001 Items:		1							
Total G03 Items:		1							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
G04.001.001	3RC-212-45 Circumferential Class A	51A	3RC-212 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049 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.
						Valve 3HP-153 to Pipe			
G04.001.002	3RC-212-43C Circumferential Class A	51A	3RC-212 O-ISIN4-100A-3.1	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-43C until Iso 3-51A -61 was redrawn. Inspect this weld at the same time item number G02.001.009B is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
						Pipe to Pipe			
G04.001.003	3RC-212-52 Circumferential Class A	51A	3RC-212 O-ISIN4-100A-3.1	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-44A until Iso 3-51A -61 was redrawn. 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.
						Pipe to Nozzle Nozzle on 3B1 Disc Line			
G04.001.004	3RC-213-27 Circumferential Class A	51A	3HP-213 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049 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.
						Valve 3HP-152 to Pipe			

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
G04.001.005	3RC-213-26		3RC-213	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-26 until iso 3-51A -62 was revised.(See rev. 8) Inspect this weld at the same time item number 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.
Class A	Circumferential	51A	O-ISIN4-100A-3.1		Pipe to Nozzle Nozzle on 3B2 Disch Line		0.375		
G04.001.006	3HP-242-39		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-39 until iso 3-51A -61 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.375		
G04.001.007	3HP-242-40		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See Addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.375		
G04.001.008	3HP-242-46		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See Addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-488		0.375		
G04.001.009	3HP-243-19A		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-19A until iso 3-51A -62 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.375		
G04.001.010	3HP-243-23		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-489		0.375		
G04.001.011	3HP-243-22		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.375		



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G04.001.012	3RC-210-32		3RC-210	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375	Valve 3HP-126 to Valve 3HP-486	
G04.001.013	3RC-211-47		3RC-211	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375	Valve 3HP-487 to Valve 3HP-127	
G04.001.014	3RC-212-46		3RC-212	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375	Valve 3HP-153 to Valve 3HP-488	
G04.001.015	3RC-213-28		3RC-213	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
Class A	Circumferential	51A	O-ISIN4-100A-3.1	NDE-12			0.375	Valve 3HP-152 to Valve 3HP-489	

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G04.001.016 Class A	3HP-240-19 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Elbow	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-64-19 until iso 3-51A -64 was redrawn.
G04.001.017 Class A	3HP-240-21 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Elbow to Pipe	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-64-21 until iso 3-51A -64 was redrawn.
G04.001.018 Class A	3HP-240-32 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Valve 3HP-486	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan.
G04.001.019 Class A	3HP-241-32 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Elbow	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-63-32 until iso 3-51A -63 was redrawn.
G04.001.020 Class A	3HP-241-33 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Elbow to Pipe	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-63-33 until iso 3-51A -63 was redrawn.
G04.001.021 Class A	3HP-241-48 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Pipe	Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Weld 3HP-241-33A was deleted and weld 3HP-241-48 replaced it.

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G04.001.022	3HP-241-43		3HP-241	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.375	Valve 3HP-487 to Pipe	
G04.001.023	3HP-243-21		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-21 until iso 3-51A -62 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.375	Pipe to Elbow	
G04.001.024	3RC-210-24A		3RC-210	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld 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		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Safe End PC 47 to Pipe	
G04.001.025	3RC-210-31		3RC-210	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. 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		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe to Valve 3HP-126	
G04.001.026	3RC-211-54		3RC-211	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld at the same time item number G02.001.010A is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe to Valve 3HP-127	
G04.001.027	3RC-211-64		3RC-211	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld at the same time item number G02.001.008A is inspected.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe Safe End PC 47 to Pipe	

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Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.

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Total G04.001 Items:	27
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Total G04 Items:	27
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H02.001.007	3-PIA1-9 Branch  Class A  Dissimilar	50	ISI-OCN3-007 O-ISIN4-100A-3.1	NDE-35	PT	CS-Inconel	8.750 2.250		Reference Section 7 Paragraph 7.1.10 of the ISI Plan - Volume1 The diameter of hole that penetrates through the nozzle into the hot leg = .613
H02.001.010	3-PIB2-9 Branch  Class A  Dissimilar	50	ISI-OCN3-010 O-ISIN4-100A-3.1	NDE-35	PT	CS-Inconel	8.750 2.250		Reference Section 7 Paragraph 7.1.10 of the ISI Plan - Volume1 The diameter of hole that penetrates through the nozzle into the hot leg = .613
<b>Total H02.001 Items:</b>		<b>2</b>							
<b>Total H02 Items:</b>		<b>2</b>							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
H04.001.033	3-01A-0-2401B-H9		3-01-01/sht.2	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1					0.000	
Class B									
H04.001.034	3-01A-0-2401B-R6		3-01-01/sht.2	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Hyd Snubber	01A	O-ISIN4-122A-3.1					1.000	Inspect with item number H04.001.034A.
Class B									
H04.001.034A	3-01A-0-2401B-R6		3-01-01/sht.2	NDE-35	PT	NA		36.000	Calculation No. OSC-506.
	Hyd Snubber	01A	O-ISIN4-122A-3.1					1.000	Inspect along with item number H04.001.034.
Class B									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use
									of procedure NDE-25) may be performed on carbon
									steel material in lieu of or in conjunction with liquid
									penetrant examinations.
H04.001.035	3-01A-0-2401B-H10		3-01-01/sht.2	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Spring Hgr	01A	O-ISIN4-122A-3.1					0.000	
Class B									
H04.001.036	3-01A-0-2401B-R15		3-01-01/sht.2	QAL-14	VT-3	NA		28.000	Calculation No. OSC-506.
	Hyd Snubber	01A	O-ISIN4-122B-3.1					0.000	
Class B									
H04.001.037	3-01A-0-2441-H16		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.2					0.000	
Class B									
H04.001.038	3-01A-0-2441-R9		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Mech Snubber	01A	O-ISIN4-122A-3.2					0.688	Inspect with item number H04.001.038A.
Class B									
H04.001.038A	3-01A-0-2441-R9		3-01-01/sht.1	NDE-35	PT	NA		36.000	Calculation No. OSC-506.
	Mech Snubber	01A	O-ISIN4-122A-3.2					0.688	Inspect along with item number H04.001.038.
Class B									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use

### CATEGORY ELC, Elective Inspections

**DUKE ENERGY CORPORATION**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
									of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.039	3-01A-0-2441-H17		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.2					0.000	
Class B									
H04.001.040	3-01A-0-2441-R11		3-01-01/sht.1	QAL-14	VT-3	CS		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1					0.375	Inspect with item number H04.001.040A.
Class B									
H04.001.040A	3-01A-0-2441-R11		3-01-01/sht.1	NDE-35	PT	CS		36.000	Calculation No. OSC-506.
	Rigid Support	01A	O-ISIN4-122A-3.1					0.375	Inspect along with item number H04.001.040.
Class B									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
Total H04.001 Items:		11							
Total H04 Items:		11							



Duke Power Company  
Inservice Inspection Management  
Inservice Inspection Plan For:  
Oconee Unit 3 and Keowee Units 1 & 2  
Interval 4  
ISI Outage 5  
Refueling Outage EOC 26

**ISI Examination Listing and Schedule**

Revision 0

**Total B02 Items: 2**

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

**DUKE ENERGY CORPORATION**  
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## Pressurizer

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>									
B03.110.009	3-PZR-WP26-1		ISI-OCN3-002	NDE-640	UT	CS	5.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt
	Circumferential	50	OM 2201-229	NDE-820			6.187		Shell Pc. 4. W-X Quadrant.
Class A			B&W 149789E		Nozzle to Shell				
B03.110.010	3-PZR-WP26-2		ISI-OCN3-002	NDE-640	UT	CS	5.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt
	Circumferential	50	OM 2201-229	NDE-820			6.187		Shell Pc. 4. Y-Z Quadrant.
Class A			B&W 149789E		Nozzle to Shell				
B03.110.011	3-PZR-WP26-3		ISI-OCN3-002	NDE-640	UT	CS	5.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt
	Circumferential	50	OM 2201-229	NDE-820			6.187		Shell Pc. 4. Z-W Quadrant, 47 Degrees Off W-Axis.
Class A			B&W 149789E		Nozzle to Shell				
B03.110.012	3-PZR-WP26-7		ISI-OCN3-002	NDE-640	UT	CS	5.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt
	Circumferential	50	OM 2201-229	NDE-820			6.187		Shell Pc. 4. Z-W Quadrant, 40 Degrees off W-Axis.
Class A			B&W 149789E		Nozzle to Shell				
<b>Total B03.110 Items:</b>		<b>4</b>							

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

## Pressurizer

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Nozzle Inside Radius Section ****									
B03.120.009	3-PZR-WP26-1	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40338 50237E	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4 (Inside Radius Section). W-X Quadrant.
Class A					Nozzle to Shell				
B03.120.010	3-PZR-WP26-2	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40338 50237E	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. (Inside Radius Section). Y-Z Quadrant.
Class A					Nozzle to Shell				
B03.120.011	3-PZR-WP26-3	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40338 50237E	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. (Inside Radius Section). Z-W Quadrant, 47 Degrees off W-Axis.
Class A					Nozzle to Shell				
B03.120.012	3-PZR-WP26-7	50	ISI-OCN3-002 OM 2201-229 B&W 149789E	NDE-680	UT	CS	5.750 2.531	40338 50237E	Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4 (Inside Radius Section). Z-W Quadrant, 40 Degrees off W-Axis.
Class A					Nozzle to Shell				
Total B03.120 Items:		4							
Total B03 Items:		8							

### CATEGORY B-F, Pressure Retaining Dissimilar Metal Welds In Vessel Nozzles

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## Pressurizer

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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\*\*\*\* Less Than NPS 4; Nozzle-to-Safe End Butt Welds \*\*\*\*

B05.050.001	3-PZR-WP91-1		ISI-OCN3-002	NDE-35	PT	SS-CS	2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe End Pc. 32. W-X Quadrant.
	Circumferential	50					0.375	
Class A	Term end Dissimilar				Nozzle to Safe End			

**Total B05.050 Items: 1**

**Total B05 Items: 1**

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater Than 2 in. In Diameter****Pressurizer****DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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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	3-PZR-STUDS		OM 201-1026	PDI-UT-5	UT	CS	2.750		40425	Pressurizer Manway Studs Pc. 69. 25 Studs, Stud
		50	B&W 149780E				0.000			Length=14.875.

Class A

**Total B06.060 Items:****1**

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

## Pressurizer

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
*** Flange Surface, when connection disassembled ***									
B06.070.001	3-PZR-MW-FLANGE		OM 201-1026	QAL-13	VT-1	CS	28.000		Pressurizer Manway Flange Surface. Examination includes 1"annular surface surrounding each stud.
		50	B&W 149793E				0.000		Inspect when connection is disassembled.
	Class A								* Do not count in totals.
Total B06.070 Items:		1							

**Total B06.080 Items: 1**



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

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**Inservice Inspection Database Management System**

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## Inservice Inspection Plan for Interval 4 Outage 5

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS	
**** Bolts and Studs ****										
B06.180.004	3-RCP-3B2-F		OM 1201.D-0057	PDI-UT-5	UT	CS		3.750	40424	Reactor Coolant Pump 3B2 Main Flange Studs Pc.
		50	OM 1201.D-0059					0.000		19. 20 Studs, Stud Length=32.00. Inspect main
Class A										flange bolting on one reactor coolant pump only.

**Total B06.180 Items: 1**

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

**DUKE ENERGY CORPORATION**  
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## **Pumps**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****									
B06.190.001	3-RCP-3A1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.002	3-RCP-3A2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.003	3-RCP-3B1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.004	3-RCP-3B2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
Total B06.190 Items:		4							
Total B06 Items:		8							

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

**DUKE ENERGY CORPORATION**  
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### Inservice Inspection Plan for Interval 4 Outage 5

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## Pressurizer

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.020.001	3-PZR-UHB-STUDS		OM 2201-0061	QAL-13	VT-1	CS		2.000 0.000	Pressurizer Upper Heater Bundle Studs and Nuts. 16 Studs, Length = 17.900". Examine all studs and nuts.
Class A		50							
B07.020.002	3-PZR-CHB-STUDS		OM 2201-0061	QAL-13	VT-1	CS		2.000 0.000	Pressurizer Center Heater Bundle Studs and Nuts. 16 Studs, Length = 17.000". Examine all studs and nuts.
Class A		50							
Total B07.020 Items:		2							

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

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### Inservice Inspection Plan for Interval 4 Outage 5

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## Steam Generators

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.030.007	3-SGB-UHIC-STUDS	50	B&W 145470E	QAL-13	VT-1	CS		1.000 0.000	Steam Generator 3B Upper Head Inspection Cover Studs and Nuts. 12 Studs, Length = 6.000". Examine all studs and nuts.
Class A									
B07.030.008	3-SGB-LHIC-STUDS	50	B&W 145470E	QAL-13	VT-1	CS		1.000 0.000	Steam Generator 3B Lower Head Inspection Cover Studs and Nuts. 12 Studs, Length = 6.000". Examine all studs and nuts.
Class A									
Total B07.030 Items:		2							

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2 in. And Less In Diameter****DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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11/17/2004****CRD Housings****Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****							
B07.080.001	3-RPV-CRD-HOUSING		B&W 149902E	QAL-13	VT-1 NA	0.000	CRD Housing includes bolts (8 bolts per connection) and housing rings (1 pair per housing). Inspect only if disassembled.
		50	B&W 149919E			0.000	
Class A							
Total B07.080 Items:		1					
Total B07 Items:		5					

# CATEGORY B-J, Pressure Retaining Welds In Piping

## DUKE ENERGY CORPORATION INSERVICE INSPECTION PLAN MANAGEMENT Inservice Inspection Database Management System

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**NPS 4 or Larger**

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### Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
**** Circumferential Welds ****										
B09.011.014	3-PIB2-1		ISI-OCN3-010	NDE-600	UT	CS	33.500			Pump 3B2 Suction Piping. SG3B Outlet Nozzle to Pipe Pc. 67.
	Circumferential	50	O-ISIN4-100A-3.1				2.330			
Class A	Term end				Nozzle to Pipe					
B09.011.014A	3-PIB2-1		ISI-OCN3-010	NDE-25	MT	CS	33.500			Pump 3B2 Suction Piping. SG3B Outlet Nozzle to Pipe Pc. 67.
	Circumferential	50	O-ISIN4-100A-3.1				2.330			
Class A	Term end				Nozzle to Pipe					
B09.011.027	3-PSL-3		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com		Pressurizer Surge Piping. Pipe Pc. 81 to Elbow Pc. 80. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000			
Class A	Stress weld				Pipe to Elbow					
B09.011.027A	3-PSL-3		ISI-OCN3-015	NDE-35	PT	SS	10.000			Pressurizer Surge Piping. Pipe Pc. 81 to Elbow Pc. 80.
	Circumferential	50	O-ISIN4-100A-3.2				1.000			
Class A	Stress weld				Pipe to Elbow					
B09.011.030	3-PSL-6		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com		Pressurizer Surge Piping. Pipe Pc. 83 to Elbow Pc. 80. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000			
Class A	Stress weld				Pipe to Elbow					
B09.011.030A	3-PSL-6		ISI-OCN3-015	NDE-35	PT	SS	10.000			Pressurizer Surge Piping. Pipe Pc. 83 to Elbow Pc. 80.
	Circumferential	50	O-ISIN4-100A-3.2				1.000			
Class A	Stress weld				Pipe to Elbow					
B09.011.036	3HP-241-9		3HP-241	NDE-600	UT	SS	4.000	See Com		This weld was listed previously as 3-51A-63-9 until Iso 3-51A -63 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531			
Class A					Pipe to Tee					

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

**NPS 4 or Larger**

## **DUKE ENERGY CORPORATION INSERVICE INSPECTION PLAN MANAGEMENT Inservice Inspection Database Management System**

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### **Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.036A	3HP-241-9		3HP-241	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-63-9 until iso 3-51A -63 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class A					Pipe to Tee				
B09.011.048	3-53A-17-8		3-53A-17	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.048A	3-53A-17-8		3-53A-17	NDE-35	PT	SS	10.000		
	Circumferential	53A	O-ISIN4-102A-3.2				1.000		
Class A			O-ISIN4-102A-3.3		Elbow to Pipe				
B09.011.049	3LP-131-2		3LP-131	NDE-600	UT	SS	12.000	See Com	This weld was listed previously as 3-53A-18-2 until iso 3-53A-18 was revised. (See Rev. 11) Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.1	See Com			1.125		
Class A					Pipe to Valve 3LP-1				
B09.011.049A	3LP-131-2		3LP-131	NDE-35	PT	SS	12.000		This weld was listed previously as 3-53A-18-2 until iso 3-53A-18 was revised. (See Rev. 11)
	Circumferential	53A	O-ISIN4-102A-3.1				1.125		
Class A					Pipe to Valve 3LP-1				

**Total B09.011 Items: 12**

# CATEGORY B-J, Pressure Retaining Welds In Piping

## DUKE ENERGY CORPORATION INSERVICE INSPECTION PLAN MANAGEMENT Inservice Inspection Database Management System

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Less Than NPS 4

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### Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
**** Circumferential Welds ****										
B09.021.002	3-50-21-1		3-50-21	NDE-35	PT	SS-Inconel	1.500			
	Circumferential	50	O-ISIN4-100A-3.1				0.281			
Class A	Dissimilar				Elbow to Nozzle					
B09.021.003	3-50-21-23		3-50-21	NDE-35	PT	SS-Inconel	1.500			
	Circumferential	50	O-ISIN4-100A-3.1				0.281			
Class A	Dissimilar				Elbow to Nozzle					
B09.021.015	3-PSP-5		ISI-OCN3-016	NDE-35	PT	SS	2.500			Pressurizer Spray Piping. Pipe Pc. 92 to Elbow Pc. 98.
	Circumferential	50	O-ISIN4-100A-3.2				0.375			
Class A	Stress weld				Pipe to Elbow					
B09.021.026	3-51A-61-17		3-51A-61	NDE-35	PT	SS	2.500			
	Circumferential	51A	O-ISIN4-101A-3.4				0.375			
Class A					Pipe to Elbow					
B09.021.027	3HP-242-23		3HP-242	NDE-35	PT	SS	2.500			This weld was listed previously as 3-51A-61-23 until iso 3-51A -61 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4				0.375			
Class A					Pipe to Elbow					
B09.021.053	3-51A-69-35		3-51A-69	NDE-35	PT	SS	2.500			
	Circumferential	51A	O-ISIN4-100A-3.1				0.375			
Class A					Pipe to Elbow					
B09.021.056	3RC-212-46		3RC-212	NDE-35	PT	SS	2.500			
	Circumferential	51A	O-ISIN4-101A-3.4				0.375			
Class A	Stress weld				Valve 3HP-153 to Valve 3HP-488					
B09.021.061	3LP-130-12		3LP-130	NDE-35	PT	SS	3.000			
	Circumferential	53A	O-ISIN4-102A-3.1				0.438			
Class A					Pipe to Reducer					

Total B09.021 Items: 8



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

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## Branch Pipe Connection Welds

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Less Than NPS 4 ****									
B09.032.003	3-PIB2-10		ISI-OCN3-010	NDE-35	PT	CS-Inconel	12.000		Pump 3B2 Suction Piping. Pipe Pc. 63 to Drain
	Branch	50	O-ISIN4-100A-3.1				2.250		Nozzle Pc. 64. The NPS of the branch line is 1.5
Class A					Pipe to				inches.
	Dissimilar				Nozzle				
Total B09.032 Items:		1							

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

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## Socket Welds

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.004	3-50-152-3		3-50-152	NDE-35	PT	SS		1.500	
	Socket	50	O-ISIN4-100A-3.2					0.281	
	Class A					Elbow to Pipe			
B09.040.005	3-50-152-5		3-50-152	NDE-35	PT	SS		1.500	
	Socket	50	O-ISIN4-100A-3.2					0.281	
	Class A					Full Coupling to Pipe			
B09.040.011	3-50-20-32		3-50-20	NDE-35	PT	SS		1.500	
	Socket	50	O-ISIN4-100A-3.1					0.281	
	Class A					Pipe to Valve 3RC-46			
B09.040.012	3-50-21-71		3-50-21	NDE-35	PT	SS		1.500	
	Socket	50	O-ISIN4-100A-3.1					0.281	
	Class A					Pipe to Valve 3RC-24			
Total B09.040 Items:		4							
Total B09 Items:		25							

**CATEGORY B-K, Welded Attachments For  
Vessels, Piping, Pumps, And Valves**DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

B10.020.024	3-53A-0-2479A-H8B		3-53-08/sht.1	NDE-35	PT	NA	10.000	Calculation No. OSC-1338 page no. 6(2)8.
	Spring Hgr	53A	O-ISIN4-102A-3.3				1.250	
	Class A		0-2492C-2(S)					

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**Total B10.020 Items: 1**

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**Total B10 Items: 1**

**CATEGORY B-L-2, Pump Casings**

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Pump Casing ****									
B12.020.001	3RCP-3A1-CASING	50	ISI-OCN3-007 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3	SS	68.000 0.000		Reactor Coolant Pump 3A1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.020.002	3RCP-3A2-CASING	50	ISI-OCN3-008 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3	SS	68.000 0.000		Reactor Coolant Pump 3A2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.020.003	3RCP-3B1-CASING	50	ISI-OCN3-009 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3	SS	68.000 0.000		Reactor Coolant Pump 3B1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A									
B12.020.004	3RCP-3B2-CASING	50	ISI-OCN3-010 OM-1201D-0057 OM-1201D-0005	QAL-14	VT-3	SS	68.000 0.000		Reactor Coolant Pump 3B2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A									
Total B12.020 Items:		4							

**CATEGORY B-M-2, Valve Body**

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## Valves

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DI/THK CAL BLOCKS	COMMENTS
<b>**** Valve Body, Exceeding NPS 4 ****</b>							
B12.050.001	3-53A-CF-11	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	A-Side Core Flood Valve Body 3CF-11 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.002	3-53A-CF-12	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	A-Side Core Flood Valve Body 3CF-12 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.003	3-53A-CF-13	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	B-Side Core Flood Valve Body 3CF-13 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.004	3-53A-CF-14	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	B-Side Core Flood Valve Body 3CF-14 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.005	3-53A-LP-47	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3 SS	10.000 0.000	B-Side LPI Valve Body 3LP-47 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.006	3-53A-LP-48	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3 SS	10.000 0.000	B-Side LPI Valve Body 3LP-48 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.007	3-53A-LP-1	53	OM-201-165 O-ISIN4-102A-3.1	QAL-14	VT-3 SS	12.000 0.000	Decay Heat Suction Valve Body 3LP-1 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							

**CATEGORY B-M-2, Valve Body****DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
B12.050.008	3-53A-LP-2		OM-201-165	QAL-14	VT-3 SS	12.000	Decay Heat Suction Valve Body 3LP-2 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
		53	O-ISIN4-102A-3.1			0.000	
Class A							

**Total B12.050 Items: 8****Total B12 Items: 12**

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

**DUKE ENERGY CORPORATION**  
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## Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welds in CRD Housing ****									
B14.010.001	3-RPV-CRD-60WH9	50	B&W 149920E	NDE-35	PT	SS-Inconel	4.060	0.650	CRDM #46 Housing Body to Adapter.
Class A					Housing Body to Adapter				
B14.010.002	3-RPV-CRD-60WH60	50	B&W 149920E	NDE-35	PT	SS-CS	5.000	0.500	CRDM #46 Base to Motor Tube.
Class A					Base to Motor Tube				
B14.010.003	3-RPV-CRD-60	50	B&W 43-53-033-09	NDE-35	PT	SS-CS	4.300	0.400	CRDM #46 Motor Tube to Extension.
Class A					Motor Tube to Extension				
B14.010.004	3-RPV-CRD-60W61	50	B&W 43-53-031-02	NDE-35	PT	SS	4.190	0.380	CRDM #46 Extension to Cap.
Class A					Extension to Cap				
Total B14.010 Items:		4							
Total B14 Items:		4							

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.020.002	3-01A-0-2481A-H4A	01A	3-01-08/sht.1	NDE-35	PT	NA	26.000	0.750	Calculation No. OSC-1334-06. Inspect with F01.021.001.
Class B	Rigid Restraint		O-ISIN4-122A-3.1 0-2490A-3(S)						
C03.020.003	3-01A-0-2481A-H5A	01A	3-01-08/sht.1	NDE-35	PT	CS	26.000	0.750	Calculation No. OSC-1334-06. Inspect with F01.021.002.
Class B	Rigid Restraint		O-ISIN4-122A-3.1 0-2490A-3(S)						
C03.020.021	3-14B-0-2480A-H22A	14B	3-14B-08/sht.1	NDE-35	PT	NA	8.000	1.500	Calculation No. OSC-1344-06. Inspect with F01.021.022.
Class B	Rigid Restraint		O-ISIN4-124B-3.2						
C03.020.022	3-14B-0-2479A-H20D	14B	3-14B-09/sht.1	NDE-35	PT	NA	8.000	1.500	Calculation No. OSC-1344-06. This support can be found on hanger sketch 3-14B-0-2479A-H19. Inspect with F01.021.024.
Class B	Rigid Restraint		O-ISIN4-124B-3.2						
C03.020.054	3-53B-5-0-2439B-H101	53B	3-53-04/sht.1	NDE-35	PT	NA	10.000	1.000	Calculation No. OSC-551. Inspect with F01.021.061.
Class B	Rigid Restraint		O-ISIN4-102A-3.2						
C03.020.056	3-53B-5-0-2436D-SR40	53B	3-53-04/sht.2	NDE-35	PT	NA	10.000	1.000	Calculation No. OSC-551. Inspect with F01.021.063.
Class B	Rigid Restraint		O-ISIN4-102A-3.2						
C03.020.065	3-54A-3-0-2439A-H25	54A	3-54-03/sht.1	NDE-35	PT	NA	8.000	1.000	Calculation No. OSC-556. Inspect with F01.020.085.
Class B	Rigid Support		O-ISIN4-103A-3.1						
Total C03.020 Items:		7							
Total C03 Items:		7							



**CATEGORY C-D, Pressure Retaining Bolting**  
**Greater Than 2 in. In Diameter**

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts and Studs ****</b>									
C04.030.001	3-HPI-PUMP-3A		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3A (Casing bolts).
		51A	O-ISIN4-101A-3.3				0.000		The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B									
C04.030.002	3-HPI-PUMP-3B		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3B (Casing bolts).
		51A	O-ISIN4-101A-3.3				0.000		The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B									
C04.030.003	3-HPI-PUMP-3C		OM 201-1704	PDI-UT-5	UT	NA	2.500	40422	High Pressure Injection Pump 3C (Casing bolts).
		51A	O-ISIN4-101A-3.3				0.000		The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Class B									
<b>Total C04.030 Items:</b>		<b>3</b>							
<b>Total C04 Items:</b>		<b>3</b>							

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

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

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Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>										
C05.011.001	3LP-134-64		3LP-134	NDE-600	UT	SS	10.000	See Com		This weld was listed previously as 3-53A-15-64 until iso 3-53A -15 (2) was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-3.2 O-ISIN4-102A-3.3	See Com			1.125			
						Valve 3LP-47 to Pipe				
C05.011.001A	3LP-134-64		3LP-134	NDE-35	PT	SS	10.000			This weld was listed previously as 3-53A-15-64 until iso 3-53A-15 (2) was redrawn.
Class B	Circumferential	53A	O-ISIN4-102A-3.2 O-ISIN4-102A-3.3				1.125			
						Valve 3LP-47 to Pipe				
C05.011.005	3-53A-17-17		3-53A-17	NDE-600	UT	SS	10.000	See Com		Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125			
						Valve 3LP-48 to Pipe				
C05.011.005A	3-53A-17-17		3-53A-17	NDE-35	PT	SS	10.000			
Class B	Circumferential	53A	O-ISIN4-102A-3.2				1.125			
						Valve 3LP-48 to Pipe				
C05.011.014	3LP-132-22		3LP-132	NDE-600	UT	SS	10.000	See Com		Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125			
						Elbow to Reducer				
C05.011.014A	3LP-132-22		3LP-132	NDE-35	PT	SS	10.000			
Class B	Circumferential	53A	O-ISIN4-102A-3.2				1.125			
						Elbow to Reducer				
C05.011.017	3LP-134-100		3LP-134	NDE-600	UT	SS	10.000	See Com		This weld was listed previously as 3-53A-15-77A until iso 3-53A-15 (2) was redrawn. This weld was listed previously as 3LP-134-77A until iso 3LP-134 was revised and deleted this weld. Weld was remade as 3LP-134-100. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-3.2 O-ISIN4-102A-3.3	See Com			1.125			
						Pipe to Elbow				

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

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

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**Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.011.017A	3LP-134-100		3LP-134	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-15-77A until Iso 3-53A-15 (2) was redrawn. This weld was listed previously as 3LP-134-77A until Iso 3LP-134 was revised and deleted this weld. Weld was remade as 3LP-134-100.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B			O-ISIN4-102A-3.3		Pipe to Elbow				
C05.011.020	3LP-134-104		3LP-134	NDE-600	UT	SS	10.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B			O-ISIN4-102A-3.3		Valve 3LP-18 to Pipe				
C05.011.020A	3LP-134-104		3LP-134	NDE-35	PT	SS	10.000		Valve 3LP-18 to Pipe
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B			O-ISIN4-102A-3.3						

**Total C05.011 Items: 10**

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

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

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Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.021.003	3-51A-101-8		3-51A-101	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.2	See Com	Elbow to Pipe		0.375		
C05.021.003A	3-51A-101-8		3-51A-101	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.2		Elbow to Pipe		0.375		
C05.021.004	3-51A-101-9		3-51A-101	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.2	See Com	Elbow to Elbow		0.375		
C05.021.004A	3-51A-101-9		3-51A-101	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.2		Elbow to Elbow		0.375		
C05.021.005	3-51A-118-1		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Elbow		0.531		
C05.021.005A	3-51A-118-1		3-51A-118	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.531		
C05.021.008	3-51A-118-21		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Elbow		0.531		
C05.021.008A	3-51A-118-21		3-51A-118	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.531		

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

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

Oconee 3

### **Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.016	3-51A-120-10		3-51A-120	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Flange to Pipe		0.531		
C05.021.016A	3-51A-120-10		3-51A-120	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Flange to Pipe		0.531		
C05.021.021	3-51A-121-22		3-51A-121	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Valve 3HP-409		0.674		
C05.021.021A	3-51A-121-22		3-51A-121	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-409		0.674		
C05.021.025	3-51A-140-19		3-51A-140	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Elbow to Pipe		0.375		
C05.021.025A	3-51A-140-19		3-51A-140	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Elbow to Pipe		0.375		
C05.021.029	3-51A-86-7		3-51A-86	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Elbow		0.531		
C05.021.029A	3-51A-86-7		3-51A-86	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Elbow		0.531		
C05.021.035	3-51A-52-20		3-51A-52	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.3	See Com	Tee to Valve 3HP-117		0.531		

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

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**Piping Welds > 1/5 In. Nom Wall for Piping >=**

Oconee 3

**NPS 2 and <= NPS 4****Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.035A	3-51A-52-20		3-51A-52	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.3				0.531		
Class B					Tee to Valve 3HP-117				
C05.021.044	3-51A-119-41		3-51A-119	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
Class B					Pipe to Valve 3HP-410				
C05.021.044A	3-51A-119-41		3-51A-119	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
Class B					Pipe to Valve 3HP-410				
C05.021.046	3-51A-59-40		3-51A-59	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.552		
Class B					Tee to Pipe				
C05.021.046A	3-51A-59-40		3-51A-59	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.552		
Class B					Tee to Pipe				
C05.021.056	3-51A-75-34		3-51A-75	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Tee to Valve 3HP-140				
C05.021.056A	3-51A-75-34		3-51A-75	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Tee to Valve 3HP-140				
C05.021.057	3-51A-77-13		3-51A-77	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.531		
Class B					Elbow to Reducer				
C05.021.057A	3-51A-77-13		3-51A-77	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.1				0.531		
Class B					Elbow to Reducer				

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

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

**DUKE ENERGY CORPORATION  
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**Inservice Inspection Plan for Interval 4 Outage 5**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.066	3-51A-87-8		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Tee to Valve 3HP-029				
C05.021.066A	3-51A-87-8		3-51A-87	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Tee to Valve 3HP-029				
C05.021.067	3-51A-87-9		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Valve 3HP-029 to Pipe				
C05.021.067A	3-51A-87-9		3-51A-87	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Valve 3HP-029 to Pipe				
C05.021.075	3-51A-118-4		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Elbow to Elbow				
C05.021.075A	3-51A-118-4		3-51A-118	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Elbow				
C05.021.080	3-51A-140-26		3-51A-140	NDE-600	UT	SS	2.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.344		
Class B					Pipe to Reducer				
C05.021.080A	3-51A-140-26		3-51A-140	NDE-35	PT	SS	2.000		
	Circumferential	51A	O-ISIN4-101A-3.1				0.344		
Class B					Pipe to Reducer				
C05.021.085	3-51A-52-26		3-51A-52	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.3	See Com			0.531		
Class B					Tee to Pipe				

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.085A	3-51A-52-26		3-51A-52	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.3				0.531		
Class B					Tee to Pipe				
C05.021.090	3-51A-59-42		3-51A-59	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.552		
Class B					Tee to Valve 3HP-122				
C05.021.090A	3-51A-59-42		3-51A-59	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.4				0.552		
Class B					Tee to Valve 3HP-122				
C05.021.095	3-51A-87-16		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Flange to Pipe				
C05.021.095A	3-51A-87-16		3-51A-87	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Flange to Pipe				
C05.021.109	3-51A-66-12		3-51A-66	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Pipe to Elbow				
C05.021.109A	3-51A-66-12		3-51A-66	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Pipe to Elbow				
C05.021.110	3-51A-66-25		3-51A-66	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B					Pipe to Elbow				
C05.021.110A	3-51A-66-25		3-51A-66	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Pipe to Elbow				



# **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 >=**

Oconee 3

**NPS 2 and <= NPS 4**

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
C05.021.111	3HP-365-37		3HP-365	NDE-600	UT	SS	4.000		See Com	This weld was listed previously as 3-51A-66-37 on iso 3-51A-66 until it was transferred to iso 3HP-365. Procedure PDI-UT-2 may be used. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674			
Class B						Tee to Pipe				
C05.021.111A	3HP-365-37		3HP-365	NDE-35	PT	SS	4.000			This weld was listed previously as 3-51A-66-37 on iso 3-51A-66 until it was transferred to iso 3HP-365.
	Circumferential	51A	O-ISIN4-101A-3.4				0.674			
Class B						Tee to Pipe				
C05.021.112	3HP-343-4		3HP-343	NDE-600	UT	SS	4.000		See Com	This weld was listed previously as 3-51A-79-4 on iso 3-51A-79 until it was transferred to iso 3HP-343. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.531			
Class B						Elbow to Elbow				
C05.021.112A	3HP-343-4		3HP-343	NDE-35	PT	SS	4.000			This weld was listed previously as 3-51A-79-4 on iso 3-51A-79 until it was transferred to iso 3HP-343.
	Circumferential	51A	O-ISIN4-101A-3.1				0.531			
Class B						Elbow to Elbow				
C05.021.113	3-51A-86-8		3-51A-86	NDE-600	UT	SS	4.000		See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531			
Class B						Elbow to Pipe				
C05.021.113A	3-51A-86-8		3-51A-86	NDE-35	PT	SS	4.000			
	Circumferential	51A	O-ISIN4-101A-3.4				0.531			
Class B						Elbow to Pipe				
C05.021.114	3-51A-86-14		3-51A-86	NDE-600	UT	SS	4.000		See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531			
Class B						Elbow to Pipe				

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.114A	3-51A-86-14		3-51A-86	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Pipe				
C05.021.115	3-51A-86-15C		3-51A-86	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Elbow to Pipe				
C05.021.115A	3-51A-86-15C		3-51A-86	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Pipe				
C05.021.116	3-51A-86-22		3-51A-86	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Elbow to Pipe				
C05.021.116A	3-51A-86-22		3-51A-86	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Pipe				
C05.021.117	3-51A-86-3		3-51A-86	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B					Elbow to Pipe				
C05.021.117A	3-51A-86-3		3-51A-86	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B					Elbow to Pipe				
Total C05.021 Items:		58							

**CATEGORY C-F-1, Pressure Retaining Welds**  
**In Austenitic SS Or High Alloy Piping**DUKE ENERGY CORPORATION  
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11/17/2004**Socket Welds****Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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C05.030.002	3-51B-30-12		3-51B-30	NDE-35	PT	SS		2.000	
	Socket	51B	O-ISIN4-101A-3.2					0.154	

Class B

Welding Boss to  
Pipe

C05.030.005	3-51B-59-22A		3-51B-59	NDE-35	PT	SS		2.000	
	Socket	51B	O-ISIN4-101A-3.2					0.154	

Class B

Pipe to  
Full Coupling**Total C05.030 Items: 2**

**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS Or High Alloy Piping**DUKE ENERGY CORPORATION  
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11/17/2004**■ Pipe Branch Connections of Branch Piping >=**  
**NPS 2**

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Circumferential Weld \*\*\*\***

C05.041.002	3-51B-30-11		3-51B-30	NDE-35	PT	SS		2.000	
	Branch	51B	O-ISIN4-101A-3.2					0.154	
	Class B					Pipe to Welding Boss			

**Total C05.041 Items: 1**

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

## **DUKE ENERGY CORPORATION INSERVICE INSPECTION PLAN MANAGEMENT Inservice Inspection Database Management System**

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

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Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>*** Circumferential Weld ***</b>									
C05.051.006	3MS-122-1		3MS-122	NDE-600	UT	CS		6.000	This weld was listed previously as 3-01A-14-1 on iso 3-01A-14 until it was transferred to iso 3MS-122. Procedure PDI-UT-1 may be used. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.2	See Com	Pipe to Elbow			0.432	
C05.051.006A	3MS-122-1		3MS-122	NDE-25	MT	CS		6.000	This weld was listed previously as 3-01A-14-1 on iso 3-01A-14 until it was transferred to iso 3MS-122.
Class B	Circumferential	01A	O-ISIN4-122A-3.2		Pipe to Elbow			0.432	
C05.051.009	3MS-1B-A		3-01A-23	NDE-600	UT	CS		26.000	Grinnell Subassembly 3MS-1B Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.1 3MS-1B	See Com	Pipe to Elbow			0.875	
C05.051.009A	3MS-1B-A		3-01A-23	NDE-25	MT	CS		26.000	Grinnell Subassembly 3MS-1B
Class B	Circumferential	01A	O-ISIN4-122A-3.1 3MS-1B		Pipe to Elbow			0.875	
C05.051.017	3FWD-83-F		3-03-27	NDE-600	UT	CS		24.000	Grinnell Subassembly 3FWD-83 Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	03	O-ISIN4-121B-3.3 3FWD-83	See Com	Pipe to Reducer			1.218	
C05.051.017A	3FWD-83-F		3-03-27	NDE-25	MT	CS		24.000	Grinnell Subassembly 3FWD-83
Class B	Circumferential	03	O-ISIN4-121B-3.3 3FWD-83		Pipe to Reducer			1.218	
C05.051.019	3-03-29-WG91-D		3-03-29	NDE-600	UT	CS		14.000	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	03	O-ISIN4-121B-3.3 OM-2201-223	See Com	Pipe to Pipe Cap			0.750	

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

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.019A	3-03-29-WG91-D		3-03-29	NDE-25	MT	CS	14.000		
	Circumferential	03	O-ISIN4-121B-3.3				0.750		
Class B			OM-2201-223		Pipe to Pipe Cap				
C05.051.020	3-03-30-WG91-C		3-03-30	NDE-600	UT	CS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	03	O-ISIN4-121B-3.3	See Com			0.750		
Class B			OM-2201-223		Tee to Pipe				
C05.051.020A	3-03-30-WG91-C		3-03-30	NDE-25	MT	CS	14.000		
	Circumferential	03	O-ISIN4-121B-3.3				0.750		
Class B			OM-2201-223		Tee to Pipe				
C05.051.026	3-03A-97-13		3-03A-97	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	03A	O-ISIN4-121D-3.1	See Com			0.562		
Class B					Elbow to Pipe				
C05.051.026A	3-03A-97-13		3-03A-97	NDE-25	MT	CS	6.000		
	Circumferential	03A	O-ISIN4-121D-3.1				0.562		
Class B					Elbow to Pipe				
C05.051.034	3LPS-478-76		3LPS-478	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-76 until Iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Tee				
C05.051.034A	3LPS-478-76		3LPS-478	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-76 until iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
Class B					Pipe to Tee				
C05.051.039	3LPS-477-53		3LPS-477	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-53 until Iso 3-14B-119 was redrawn.
	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Pipe				

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

Oconee 3

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.039A	3LPS-477-53		3LPS-477	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-53 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2		Pipe to Pipe		0.500		
C05.051.044	3LPS-478-77		3LPS-478	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-77 until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com	Pipe to Tee		0.500		
C05.051.044A	3LPS-478-77		3LPS-478	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-77 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2		Pipe to Tee		0.500		
C05.051.045	3LPS-478-9		3LPS-478	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-9 until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com	Elbow to Elbow		0.500		
C05.051.045A	3LPS-478-9		3LPS-478	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-9 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2		Elbow to Elbow		0.500		
C05.051.052	3FDW-226-1		3FDW-226	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	03A	O-ISIN4-121D-3.1	See Com	Pipe to Elbow		0.432		
C05.051.052A	3FDW-226-1		3FDW-226	NDE-25	MT	CS	6.000		
Class B	Circumferential	03A	O-ISIN4-121D-3.1		Pipe to Elbow		0.432		
C05.051.053	3-03A-15-10B		3-03A-15	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	03A	O-ISIN4-121D-3.1	See Com	Elbow to Pipe		0.432		

**CATEGORY C-F-2, Pressure Retaining Welds  
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**Piping Welds  $\geq$  3/8 In. Nominal Wall Thickness  
for Piping  $>$  NPS 4**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.051.053A	3-03A-15-10B		3-03A-15	NDE-25	MT	CS	6.000			
	Circumferential	03A	O-ISIN4-121D-3.1				0.432			
Class B					Elbow to Pipe					
C05.051.054	3FDW-230-29		3FDW-230	NDE-600	UT	CS	6.000	See Com		This weld was listed previously as 3-03A-15-29 on iso 3-03A-15 until it was tranferred to iso 3FDW-230.
	Circumferential	03A	O-ISIN4-121D-3.1	See Com			0.432			Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B					Pipe to Valve 3FDW-232					
C05.051.054A	3FDW-230-29		3FDW-230	NDE-25	MT	CS	6.000			
	Circumferential	03A	O-ISIN4-121D-3.1				0.432			
Class B					Pipe to Valve 3FDW-232					
Total C05.051 Items:		26								



**CATEGORY C-F-2, Pressure Retaining Welds  
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**NPS 2**

Inservice Inspection Plan for Interval 4 Outage 5

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Circumferential Weld \*\*\*\***

C05.081.004	3-14B-104-31		3-14B-104	NDE-25	MT	CS	6.000		
	Branch	14B	O-ISIN4-124B-3.2				0.280		
	Class B				Pipe to				Pipe

**Total C05.081 Items: 1****Total C05 Items: 98**

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

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**Pressure Vessels**

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**Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
D01.010.002	3-RB-COOLER-A		OM 201-85	QAL-13	VT-1	NA	0.000		Reactor Building Component Cooler 3A Support A & B.
		14B	O-ISIN4-124B-3.1				0.000		
	Class C		OM 2201-278.00A		Attachment to				Shell

Total D01.010 Items: 1

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

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## Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>									
D01.020.028	3-03A-1-0-2400A-DE048		3-03A-09/sht.2	QAL-13	VT-1	NA		6.000	Calculation No. OSC-526. Inspect with F01.030.031.
	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
Class C									
D01.020.030	3-03A-1-0-2439B-H11		3-03A-06/sht.2	QAL-13	VT-1	NA		6.000	Calculation No. OSC-519. Inspect with F01.031.022.
	Rigid Restraint	03A	O-ISIN4-121D-3.1					0.375	
Class C									
D01.020.035	3-04A-2-0-2439B-SR3		3-04A-01	QAL-13	VT-1	NA		6.000	Calculation No. OSC-520. Inspect with F01.030.051.
	Rigid Restraint	04A	O-ISIN4-121B-3.5					0.500	
Class C									
D01.020.051	3-08-2401B-H16		3-08-01/sht.2	QAL-13	VT-1	NA		10.000	Calculation No. OSC-1808. Inspect with
	Rigid Restraint	08	O-ISIN4-122A-3.4					0.750	F01.031.061.
Class C									
D01.020.091	3-57-0-2481A-H5		3-57-01/sht.1	QAL-13	VT-1	NA		12.000	Calculation No. OSC-1351-06 Vol. C pg. 104.1.
	Rigid Support	57	O-ISIN4-100A-3.2					0.750	Inspect with F01.030.121.
Class C									
<b>Total D01.020 Items:</b>		<b>5</b>							
<b>Total D01 Items:</b>		<b>6</b>							

**CATEGORY F-A, Supports**

**DUKE ENERGY CORPORATION**  
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## Class 1 Piping Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
*** Category A, One-Directional ***									
F01.010.016	3-51A-0-2479A-H9B		3-51-20/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-1342-06 Vol.A. H.P.I. West
	Rigid Support	51A	O-ISIN4-101A-3.4					0.375	Coolant Loop South Leg.
Class A									
F01.010.021	3-53A-0-2478A-H2A		3-53-07/sht.2	QAL-14	VT-3	NA		14.000	Calculation No. OSC-1338.
	Rigid Support	53A	O-ISIN4-102A-3.3					0.280	
Class A									
Total F01.010 Items: 2									

**CATEGORY F-A, Supports**

**DUKE ENERGY CORPORATION**  
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## Class 2 Piping Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.020.034	3-51A-6-0-2435D-H124		3-51-02/sht.4	QAL-14	VT-3	NA		6.000	Calculation No. OSC-539.
Class B	Rigid Support	51A	O-ISIN4-101A-3.3 O-3AB-35102-04					0.000	
F01.020.042	3-51B-1-0-2436G-H63		3-51-02/sht.3	QAL-14	VT-3	NA		6.000	Calculation No. OSC-539.
Class B	Rigid Support	51B	O-ISIN4-101A-3.2 O-3AB-35102-03					0.280	
F01.020.043	3-51B-3-0-2436G-H59		3-51-02/sht.3	QAL-14	VT-3	NA		4.000	Calculation No. OSC-539.
Class B	Rigid Support	51B	O-ISIN4-101A-3.2 O-3AB-35102-03					0.000	
F01.020.048	3-51B-2-0-2437A-H24		3-51-01/sht.3	QAL-14	VT-3	NA		4.000	Calculation No. OSC-538 Part "A".
Class B	Rigid Support	51B	O-ISIN4-101A-3.1					0.000	
F01.020.049	3-51B-2-0-2436C-H5		3-51-01/sht.1	QAL-14	VT-3	NA		4.000	Calculation No. OSC-538 Part "A".
Class B	Rigid Support	51B	O-ISIN4-101A-3.1					0.000	
F01.020.068	3-53B-2435B-DE026		3-53-03/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-550.
Class B	Rigid Support	53B	O-ISIN4-102A-3.2					0.000	
F01.020.069	3-53B-2435B-DE027		3-53-03/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-550.
Class B	Rigid Support	53B	O-ISIN4-102A-3.2					0.000	
F01.020.070	3-53B-2435B-DE028		3-53-03/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-550.
Class B	Rigid Support	53B	O-ISIN4-102A-3.2					0.000	

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## **Class 2 Piping Supports**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.082	3-54A-3-0-2435B-DE003 Rigid Support	54A	3-54-01/sht.1 O-ISIN4-103A-3.1	QAL-14	VT-3	NA	8.000 0.000		Calculation No. OSC-554.
Class B									
F01.020.085	3-54A-3-0-2439A-H25 Rigid Support	54A	3-54-03/sht.1 O-ISIN4-103A-3.1	QAL-14	VT-3	NA	8.000 1.000		Calculation No. OSC-556. Inspect with C03.020.065.
Class B									
F01.020.087	3-54A-3-0-2439B-SR19 Rigid Support	54A	3-54-03/sht.2 O-ISIN4-103A-3.1	QAL-14	VT-3	NA	8.000 0.000		Calculation No. OSC-556.
Class B									
<b>Total F01.020 Items:</b>		<b>11</b>							
<b>**** Category B, Multi-Directional ****</b>									
F01.021.001	3-01A-0-2481A-H4A Rigid Restraint	01A	3-01-08/sht.1 O-ISIN4-122A-3.1 0-2490A-3(S)	QAL-14	VT-3	NA	26.000 0.750		Calculation No. OSC-1334-06. Inspect with C03.020.002.
Class B									
F01.021.002	3-01A-0-2481A-H5A Rigid Restraint	01A	3-01-08/sht.1 O-ISIN4-122A-3.1 0-2490A-3(S)	QAL-14	VT-3	CS	26.000 0.750		Calculation No. OSC-1334-06. Inspect with C03.020.003.
Class B									
F01.021.022	3-14B-0-2480A-H22A Rigid Restraint	14B	3-14B-08/sht.1 O-ISIN4-124B-3.2	QAL-14	VT-3	NA	8.000 1.500		Calculation No. OSC-1344-06.
Class B									
F01.021.024	3-14B-0-2479A-H20D Rigid Restraint	14B	3-14B-09/sht.1 O-ISIN4-124B-3.2	QAL-14	VT-3	NA	8.000 1.500		Calculation No. OSC-1344-06. This support can be found on hanger sketch 3-14B-0-2479A-H19. Inspect with C03.020.022.
Class B									
F01.021.025	3-14B-0-2480A-H22D Rigid Restraint	14B	3-14B-09/sht.1 O-ISIN4-124B-3.2	QAL-14	VT-3	NA	8.000 1.500		Calculation No. OSC-1344-06.
Class B									

CATEGORY F-A, Supports

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Class 2 Piping Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.021.026	3-14B-0-2479A-H5C		3-14B-12/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-1344-06.
	Rigid Restraint	14B	O-ISIN4-124B-3.2				1.500		
Class B									
F01.021.027	3-14B-0-2479A-H5F		3-14B-13/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-1344-06.
	Rigid Restraint	14B	O-ISIN4-124B-3.2				1.500		
Class B									
F01.021.061	3-53B-5-0-2439B-H101		3-53-04/sht.1	QAL-14	VT-3	NA	10.000		Calculation No. OSC-551. Inspect with C03.020.054.
	Rigid Restraint	53B	O-ISIN4-102A-3.2				1.000		
Class B									
F01.021.063	3-53B-5-0-2436D-SR40		3-53-04/sht.2	QAL-14	VT-3	NA	10.000		Calculation No. OSC-551. Inspect with C03.020.056.
	Rigid Restraint	53B	O-ISIN4-102A-3.2				1.000		
Class B									

Total F01.021 Items: 9

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

F01.022.001	3-01A-0-2480A-H7A		3-01-08/sht.1	QAL-14	VT-3	NA	26.000		Calculation No. OSC-1334-06.
	Constant Support	01A	O-ISIN4-121B-3.3				1.500		
Class B									
F01.022.035	3-53B-5-0-2435B-SR38		3-53-03/sht.1	QAL-14	VT-3	NA	10.000		Calculation No. OSC-550.
	Hyd Snubber	53B	O-ISIN4-102A-3.2				0.000		
Class B									

Total F01.022 Items: 2

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### Class 3 Piping Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.030.001	3-01A-2403D-LC-1604		3-01A-04/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-510.
Class C	Rigid Support	01A	O-ISIN4-122A-3.4 O-3TB-301A04-01					0.125	
F01.030.022	3-03A-2401A-DE021		3-03A-04/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-516.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.500	
F01.030.023	3-03A-2401A-DE022		3-03A-04/sht.1	QAL-14	VT-3	NA		6.000	Calculation No. OSC-516.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.500	
F01.030.031	3-03A-1-0-2400A-DE048		3-03A-09/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526. Inspect with
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	D01.020.028.
F01.030.032	3-03A-1-0-2400A-H110		3-03A-09/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-526.
Class C	Rigid Support	03A	O-ISIN4-121D-3.1					0.125	
F01.030.051	3-04A-2-0-2439B-SR3		3-04A-01	QAL-14	VT-3	NA		6.000	Calculation No. OSC-520.
Class C	Rigid Restraint	04A	O-ISIN4-121B-3.5					0.500	
F01.030.061	3-07A-4-0-2402A-SR19		3-07-01/sht.1	QAL-14	VT-3	NA		30.000	Calculation No. OSC-521.
Class C	Rigid Support	07A	O-ISIN4-121A-3.7					1.000	
F01.030.063	3-07A-6-0-2402A-SR21		3-07-01/sht.1	QAL-14	VT-3	NA		30.000	Calculation No. OSC-521.
Class C	Rigid Support	07A	O-ISIN4-121A-3.7					0.375	



**CATEGORY F-A, Supports**

**DUKE ENERGY CORPORATION**  
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**Class 3 Piping Supports**

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**Inservice Inspection Plan for Interval 4 Outage 5**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.030.091	3-13-7-0-2400A-SR2		3-13-07/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-523.
	Rigid Support	13	O-ISIN4-133A-3.2					0.337	
Class C									
F01.030.111	3-56-5-0-2437A-DE016		3-56-01/sht.1	QAL-14	VT-3	NA		8.000	Calculation No. OSC-567.
	Rigid Support	56	O-ISIN4-104A-3.1					0.125	
Class C									
F01.030.121	3-57-0-2481A-H5		3-57-01/sht.1	QAL-14	VT-3	NA		12.000	Calculation No. OSC-1351-06 Vol. C pg 104.1.
	Rigid Support	57	O-ISIN4-100A-3.2					0.750	Inspect with D01.020.091.
Class C									

Total F01.030 Items: 11

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

F01.031.022	3-03A-1-0-2439B-H11		3-03A-06/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-519. Inspect with
	Rigid Restraint	03A	O-ISIN4-121D-3.1					0.375	D01.020.030.
Class C									
F01.031.024	3-03A-1-0-2437B-H193		3-03A-10/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-527.
	Rigid Restraint	03A	O-ISIN4-121D-3.1					0.500	
Class C									
F01.031.061	3-08-2401B-H16		3-08-01/sht.2	QAL-14	VT-3	NA		10.000	Calculation No. OSC-1808. Inspect with
	Rigid Restraint	08	O-ISIN4-122A-3.4					0.750	D01.020.051.
Class C									
F01.031.092	3-56-4-0-2438B-SR4		3-56-02/sht.3	QAL-14	VT-3	NA		8.000	Calculation No. OSC-563.
	Rigid Restraint	56	O-ISIN4-104A-3.1					1.000	
			O-3AB-35602-03						
Class C									

Total F01.031 Items: 4

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

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION  
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Class 3 Piping Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
F01.032.042	3-07A-6-0-2400A-H66		3-07-05/sht.1	QAL-14	VT-3 NA	12.000	Calculation No. OSC-1211.
	Spring Hgr	07A	O-ISIN4-121A-3.8			0.750	

Class C

Total F01.032 Items: 1

### **CATEGORY F-A, Supports**

**DUKE ENERGY CORPORATION**  
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### **Supports Other Than Piping Supports**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Class 1, 2, and 3 ****									
F01.040.002	3-SGA-SKIRT	50	ISI-OCN3-003 O-ISIN4-100A-3.1 OM 2201-222	QAL-14	VT-3	NA		0.000 0.000	Steam Generator 3A Support Skirt.
Class A									
F01.040.013	3-RB-COOLER-A	14B	OM 2201-278.00A O-ISIN4-124B-3.1 OM 201-0085	QAL-14	VT-3	NA		0.000 0.000	Reactor Building Component Cooler 3A Support A & B.
Class C									
F01.040.014	3-LD-FTR-A	51A	OM-201-0128 O-ISIN4-101A-3.2	QAL-14	VT-3	SS		0.000 0.000	Letdown Filter 3A Support.
Class B									
F01.040.017	3-MCD-C	07A	OM 202-5 O-ISIN4-121A-3.3 OM 202-25	QAL-14	VT-3	NA		0.000 0.000	Main Condenser 3C Support Legs.
Class C									
F01.040.018	3-UST-A	07A	OM 2201-15 O-ISIN4-121A-3.7 OM 149-0001	QAL-14	VT-3	NA		0.000 0.000	Upper Surge Tank 3A Support Legs.
Class C									
F01.040.019	3-LPI-PU-A	53	OM 2201-0597 O-ISIN4-102A-3.2 OM 201-2368	QAL-14	VT-3	NA		0.000 0.000	Low Pressure Injection Pump 3A Support Pad & Legs.
Class B									
F01.040.033	3-50-RCPM-3A2-SS3 Hyd Snubber	50	0-1066A O-ISIN4-100A-3.1 O-ISIN4-100A-3.3	QAL-14	VT-3	NA		6.000 0.000	Calcalaton No. OSC-1011-01-0002, Reactor Coolant Pump Motor Snubbers. Reference PIP O-096-1575.
Class A									
F01.040.035	3-50-RCPM-3B2-SS2 Mech Snubber	50	0-1066A O-ISIN4-100A-3.1 O-ISIN4-100A-3.3	QAL-14	VT-3	NA		6.000 0.000	Calcalaton No. OSC-1011-01-0004, Reactor Coolant Pump Motor Snubbers. Reference PIP O-096-1575.
Class A									
Total F01.040 Items:		8							
Total F01 Items:		48							

**CATEGORY AUG, Augmented Inspections**

**DUKE ENERGY CORPORATION**  
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### Inservice Inspection Plan for Interval 4 Outage 5

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
G01.001.001A3-RCP-3A1  Class A	50		OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT CS	72.000 9.500	Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
G01.001.002A3-RCP-3A2  Class A	50		OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT CS	72.000 9.500	Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
G01.001.003A3-RCP-3B1  Class A	50		OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT CS	72.000 9.500	Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
G01.001.004A3-RCP-3B2  Class A	50		OM-201D-038 O-ISIN4-100A-3.1	NDE-25	MT CS	72.000 9.500	Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
Total G01.001 Items:	4						
Total G01 Items:	4						

### CATEGORY AUG, Augmented Inspections

**DUKE ENERGY CORPORATION**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G11.001.002	3-RPV-HEAD-PEN		O-ISIN4-100A-1.1	See Com	VT-3	SS		0.000	INRC Order EA-03-009 requires bare metal visual examination of 100% of the Reactor Pressure Vessel Head surface (including 360 degrees around each RPV head penetration nozzle). For additional information, contact J.M. Shuping of the Metallurgy, Lab Services Group. Procedure MP/O/A/1150/029-001
		50	OM-201-2271					0.000	
Class A									
Total G11.001 Items:		1							
Total G11 Items:		1							

### CATEGORY ELC, Elective Inspections

**DUKE ENERGY CORPORATION**  
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### Inservice Inspection Plan for Interval 4 Outage 5

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H02.001.004	3-PHB-13		ISI-OCN3-006	NDE-35	PT	CS-Inconel	9.000		Reference Section 7 Paragraph 7.1.10 of the ISI Plan - Volume1 The diameter of hole that penetrates through the nozzle into the hot leg = .613
Class A	Branch	50	O-ISIN4-100A-3.1				2.875		
	Dissimilar				Nozzle RTE	Nozzle to Pipe B Hot Leg	X - axis		
H02.001.005	3-PHB-14		ISI-OCN3-006	NDE-35	PT	CS-Inconel	9.000		Reference Section 7 Paragraph 7.1.10 of the ISI Plan - Volume1 The diameter of hole that penetrates through the nozzle into the hot leg = .613
Class A	Branch	50	O-ISIN4-100A-3.1				2.875		
	Dissimilar				Nozzle RTE	Nozzle to Pipe B Hot Leg	Y Z - axis		
H02.001.006	3-PHB-15		ISI-OCN3-006	NDE-35	PT	CS-Inconel	9.000		Reference Section 7 Paragraph 7.1.10 of the ISI Plan - Volume1 The diameter of hole that penetrates through the nozzle into the hot leg = .613
Class A	Branch	50	O-ISIN4-100A-3.1				2.875		
	Dissimilar				Nozzle RTE	Nozzle to Pipe B Hot Leg	Z W - axis		
Total H02.001 Items:		3							
Total H02 Items:		3							

### CATEGORY ELC, Elective Inspections

**DUKE ENERGY CORPORATION**  
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## Inservice Inspection Plan for Interval 4 Outage 5

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.043 Class B	3-01A-0-2401B-H20 Rigid Support	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA		36.000 0.000	Calculation No. OSC-506.
H04.001.044 Class B	3-01A-0-2401B-H21 Rigid Support	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA		36.000 0.000	Calculation No. OSC-506.
H04.001.045 Class B	3-01A-0-2401B-H22 Rigid Support	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA		36.000 0.125	Calculation No. OSC-506. Inspect with item number H04.001.045A.
H04.001.045A Class B	3-01A-0-2401B-H22 Rigid Support	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	NDE-35	PT	NA		36.000 0.125	Calculation No. OSC-506. Inspect along with item number H04.001.045. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.046 Class B	3-01A-0-2401B-R12 Hyd Snubber	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA		36.000 0.000	Calculation No. OSC-506.
H04.001.048 Class B	3-01A-0-2401B-H23 Spring Hgr	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	QAL-14	VT-3	NA		36.000 0.125	Calculation No. OSC-506. Inspect with item number H04.001.048A.
H04.001.048A Class B	3-01A-0-2401B-H23 Spring Hgr	01A	3-01-01/sht.2 O-ISIN4-122A-3.1	NDE-35	PT	NA		36.000 0.125	Calculation No. OSC-506. Inspect along with item number H04.001.048. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.

**CATEGORY ELC, Elective Inspections**

**DUKE ENERGY CORPORATION**  
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### Inservice Inspection Plan for Interval 4 Outage 5

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.049	3-01A-2401B-MS-2		3-01-01/sht.2	QAL-14	VT-3	NA	28.000		Calculation No. OSC-506.
	Rigid Restraint	01A	O-ISIN4-122B-3.1				0.000		
Class B									
H04.001.050	3-01A-0-2401B-R14		3-01-01/sht.2	QAL-14	VT-3	NA	28.000		Calculation No. OSC-506.
	Hyd Snubber	01A	O-ISIN4-122B-3.1				0.000		
Class B									
H04.001.051	3-01A-0-2401B-R16		3-01-01/sht.2	QAL-14	VT-3	NA	28.000		Calculation No. OSC-506.
	Hyd Snubber	01A	O-ISIN4-122B-3.1				0.000		
Class B									
<b>Total H04.001 Items:</b>		<b>10</b>							
<b>Total H04 Items:</b>		<b>10</b>							



Duke Power Company  
Inservice Inspection Management  
Inservice Inspection Plan For:  
Oconee Unit 3 and Keowee Units 1 & 2  
Interval 4  
ISI Outage 6  
Refueling Outage EOC 27

**ISI Examination Listing and Schedule**

Revision 0

**CATEGORY B-A, Pressure Retaining Welds In  
Reactor Vessel**

DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
Inservice Inspection Database Management System

**Shell Welds**

Oconee 3

**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
**** Circumferential ****										
B01.011.001	3-RPV-WR1A		ISI-OCN3-001	See Com	UT	CS		170.630	PDI-01	Reactor Vessel Upper Shell Forging Pc. 87 to Intermediate Shell Forging Pc. 165. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227					9.500		
Class A					Shell to Shell					
B01.011.002	3-RPV-WR1		ISI-OCN3-001	See Com	UT	CS		170.630	PDI-01	Reactor Vessel Intermediate Shell Forging Pc. 165 to Lower Shell Forging Pc. 166. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227					9.500		
Class A					Shell to Shell					
B01.011.003	3-RPV-WR18		ISI-OCN3-001	See Com	UT	CS		167.630	PDI-01	Reactor Vessel Upper Shell Forging Pc. 86 to Upper Shell Forging Pc. 87. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227					12.000		
Class A					Shell to Shell					
B01.011.004	3-RPV-WR34		ISI-OCN3-001	See Com	UT	CS		170.250	PDI-01	Reactor Vessel Transition Pc. 36 to Lower Shell Forging Pc. 166. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227					5.500		
Class A					Transition Piece to Shell					

Total B01.011 Items: 4

**CATEGORY B-A, Pressure Retaining Welds In  
Reactor Vessel**

DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
Inservice Inspection Database Management System

**Head Welds**

Oconee 3

**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
**** Circumferential ****										
B01.021.002	3-RPV-WR35		ISI-OCN3-001	See Com	UT	CS	143.000		PDI-01	Reactor Vessel Transition Pc. 36 to Lower Head Pc.
	Circumferential	50	OM-2201-227				5.375			6. Procedure # PDI-ISI-254.
	Class A				Transition Piece to Lower Head					

Total B01.021 Items: 1

**CATEGORY B-A, Pressure Retaining Welds In  
Reactor Vessel**

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**Shell-to-Flange Weld**

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**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B01.030.001	3-RPV-WR19		ISI-OCN3-001	See Com	UT	CS	167.630	PDI-01	Reactor Vessel Upper Shell Forging Pc. 86 to Flange Pc. 7. Inspect from Vessel ID (automated scan). Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227				12.000		
	Class A				Shell to Flange				

Total B01.030 Items:	1
Total B01 Items:	6

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

## ■ Pressurizer

**DUKE ENERGY CORPORATION**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS	
**** Shell-to-Head; Circumferential ****										
B02.011.002	3-PZR-WP28		ISI-OCN3-002	NDE-620	UT	CS		84.000	40394	Pressurizer Lower Head Pc. 6 to Heater Belt Shell Pc. 4 and Lower Heater Belt Forging Pc. 40. Depending upon examiner's qualifications, Procedure PDI-UT-6 may be used in lieu of Procedure NDE-620.
	Circumferential	50	OM-2201-229	See Com				4.750	50236	
Class A					Head to					
					Htr. Belt Shell/Forging					
Total B02.011 Items:		1								
**** Shell-to-Head; Longitudinal ****										
B02.012.002	3-PZR-WP7-1		ISI-OCN3-002	NDE-620	UT	CS		0.000	40338	Pressurizer Heater Belt Shell Pc.4 to Lower Heater Belt Forging Pc.40 and Pressurizer Heater Belt Shell Pc. 4 to Lower/Upper Heater Belt Forging Pc. 40/41. Y-Z Quadrant. Depending upon examiner's qualifications, Procedure PDI-UT-6 may be used in lieu of Procedure NDE-620.
	Longitudinal	50	OM-2201-229	See Com				6.188	50236	
Class A					Htr. Belt Shell to					
					Htr. Belt Forging					
Total B02.012 Items:		1								

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

**DUKE ENERGY CORPORATION**  
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### Heat Exchangers (Primary Side)-Shell

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### Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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\*\*\*\* Tubesheet-to-Head Welds \*\*\*\*

B02.060.001	3-LDCA-IN-V3		1-97347-1	NDE-3630	UT	SS	8.620	40411	Letdown Cooler 3A Inlet Tubesheet Pc. 2 to
	Circumferential	51A	OM-201-3107				0.875		Channel Body Pc. 3.
Class A			O-ISIN4-101A-3.1			Tubesheet to Head			

**Total B02.060 Items: 1**

**Total B02 Items: 3**

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

DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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**Reactor Vessel**

Oconee 3  
Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nozzle-to-Vessel Welds ****									
B03.090.001	3-RPV-WR13		ISI-OCN3-001	See Com	UT	CS	60.000	PDI-01	RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. X-Axis. UT from Vessel ID.
Class A			B&W149907E		Nozzle to Vessel				Procedure # PDI-ISI-254.
B03.090.001A	3-RPV-WR13		ISI-OCN3-001	See Com	UT	CS	60.000	PDI-01	RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. X-Axis. UT from Nozzle ID.
Class A			B&W149907E		Nozzle to Vessel				Procedure # PDI-ISI-254-NZ.
B03.090.002	3-RPV-WR13A		ISI-OCN3-001	See Com	UT	CS	60.000	PDI-01	RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. Z-Axis. UT from Vessel ID.
Class A			B&W149907E		Nozzle to Vessel				Procedure # PDI-ISI-254.
B03.090.002A	3-RPV-WR13A		ISI-OCN3-001	See Com	UT	CS	60.000	PDI-01	RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. Z-Axis. UT from Nozzle ID.
Class A			B&W149907E		Nozzle to Vessel				Procedure # PDI-ISI-254-NZ.
B03.090.003	3-RPV-WR12		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. W-X Quadrant. UT from Vessel ID.
Class A			B&W149908E		Nozzle to Vessel				Procedure # PDI-ISI-254.
B03.090.003A	3-RPV-WR12		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. W-X Quadrant. UT from Nozzle ID.
Class A			B&W149908E		Nozzle to Vessel				Procedure # PDI-ISI-254-NZ.
B03.090.004	3-RPV-WR12A		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. X-Y Quadrant. UT from Vessel ID.
Class A			B&W149908E		Nozzle to Vessel				Procedure # PDI-ISI-254.
B03.090.004A	3-RPV-WR12A		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc.
	Circumferential	50	OM-2201-227				12.000		86 and Pc. 87. X-Y Quadrant. UT from Nozzle ID.
Class A			B&W149908E		Nozzle to Vessel				Procedure # PDI-ISI-254-NZ.

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

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**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B03.090.005	3-RPV-WR12B		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Y-Z Quadrant. UT from Vessel ID. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227				12.000		
Class A			B&W149908E		Nozzle to Vessel				
B03.090.005A	3-RPV-WR12B		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Y-Z Quadrant. UT from Nozzle ID. Procedure # PDI-ISI-254-NZ.
	Circumferential	50	OM-2201-227				12.000		
Class A			B&W149908E		Nozzle to Vessel				
B03.090.006	3-RPV-WR12C		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Z-W Quadrant. UT from Vessel ID. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227				12.000		
Class A			B&W149908E		Nozzle to Vessel				
B03.090.006A	3-RPV-WR12C		ISI-OCN3-001	See Com	UT	CS	48.000	PDI-01	RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Z-W Quadrant. UT from Nozzle ID. Procedure # PDI-ISI-254-NZ.
	Circumferential	50	OM-2201-227				12.000		
Class A			B&W149908E		Nozzle to Vessel				
B03.090.007	3-RPV-WR54		ISI-OCN3-001	See Com	UT	CS	25.000	PDI-01	RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. W-Axis. UT from Vessel ID. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227				12.000		
Class A					Nozzle to Vessel				
B03.090.007A	3-RPV-WR54		ISI-OCN3-001	See Com	UT	CS	25.000	PDI-01	RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. W-Axis. UT from Nozzle ID. Procedure # PDI-ISI-254-NZ.
	Circumferential	50	OM-2201-227				12.000		
Class A					Nozzle to Vessel				
B03.090.008	3-RPV-WR54A		ISI-OCN3-001	See Com	UT	CS	25.000	PDI-01	RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. Y-Axis. UT from Vessel ID. Procedure # PDI-ISI-254.
	Circumferential	50	OM-2201-227				12.000		
Class A					Nozzle to Vessel				
B03.090.008A	3-RPV-WR54A		ISI-OCN3-001	See Com	UT	CS	25.000	PDI-01	RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. Y-Axis. UT from Nozzle ID. Procedure # PDI-ISI-254-NZ.
	Circumferential	50	OM-2201-227				12.000		
Class A					Nozzle to Vessel				

Total B03.090 Items: 16



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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nozzle Inside Radius Section ****									
B03.100.001	3-RPV-WR13	50	ISI-OCN3-001	See Com	VT-1	CS	60.000		RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc. 86 and Pc. 87 (Inside Radius Section), X-Axis. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227 B&W149907E				12.000		
					Nozzle to Vessel				
B03.100.002	3-RPV-WR13A	50	ISI-OCN3-001	See Com	VT-1	CS	60.000		RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc. 86 and Pc. 87 (Inside Radius Section), Z-Axis. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227 B&W149907E				12.000		
					Nozzle to Vessel				
B03.100.003	3-RPV-WR12	50	ISI-OCN3-001	See Com	VT-1	CS	48.000		RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87 (Inside Radius Section), W-X Quadrant. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227 B&W149908E				12.000		
					Nozzle to Vessel				
B03.100.004	3-RPV-WR12A	50	ISI-OCN3-001	See Com	VT-1	CS	48.000		RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87 (Inside Radius Section), X-Y Quadrant. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227 B&W149908E				12.000		
					Nozzle to Vessel				
B03.100.005	3-RPV-WR12B	50	ISI-OCN3-001	See Com	VT-1	CS	48.000		RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87 (Inside Radius Section), Y-Z Quadrant. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227 B&W149908E				12.000		
					Nozzle to Vessel				
B03.100.006	3-RPV-WR12C	50	ISI-OCN3-001	See Com	VT-1	CS	48.000		RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87 (Inside Radius Section), Z-W Quadrant. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227 B&W149908E				12.000		
					Nozzle to Vessel				
B03.100.007	3-RPV-WR54	50	ISI-OCN3-001	See Com	VT-1	CS	25.000		RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86 (Inside Radius Section), W-Axis. An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1. Procedure # WDI-STD-088.
Class A			OM-2201-227				12.000		
					Nozzle to Vessel				

**CATEGORY B-D, Full Penetration Welded  
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**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B03.100.008	3-RPV-WR54A		ISI-OCN3-001	See Com	VT-1	CS	25.000		RV Core Flood Nozzle Pc. 17 to Upper Shell
		50	OM-2201-227				12.000		Forging Pc. 86 (Inside Radius Section). Y-Axis. An
Class A					Nozzle to				enhanced VT-1 (EVT-1) inspection will be performed
					Vessel				in lieu of UT inspection per Code Case N-648-1.
									Procedure # WDI-STD-088.

**Total B03.100 Items: 8**

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

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### Heat Exchangers (Primary Side)

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### Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>											
B03.150.003	3-LDCB-IN-V1		I-44773-3	NDE-3630	UT	SS		3.000	40411		Letdown Cooler 3B Tubeside Inlet Nozzle to Channel Body.
Class A	Circumferential	51A	OM 201-3107 O-ISIN4-101A-3.1			Nozzle to Channel Body		0.875			
B03.150.004	3-LDCB-OUT-V2		1-44773-3	NDE-3630	UT	SS		3.000	40411		Letdown Cooler 3B Tubeside Outlet Nozzle to Channel Body.
Class A	Circumferential	51A	OM 201-3107 O-ISIN4-101A-3.1			Nozzle to Channel Body		0.875			

**Total B03.150 Items: 2**

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

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### Heat Exchangers (Primary Side)

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## Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS	
**** Nozzle Inside Radius Section ****										
B03.160.003	3-LDCB-IN-V1		1-44773-3	See Com	UT	SS		3.000	40411	Letdown Cooler 3B Tubeside Inlet Nozzle to Channel Body (Inside Radius Section). Do not inspect, See Relief Request in Section 9 of General Requirements.
Class A		51A	OM 201-3107					0.875		
			O-ISIN4-101A-3.1		Nozzle to	Channel Body				
B03.160.004	3-LDCB-OUT-V2		1-44773-3	See Com	UT	SS		3.000	40411	Letdown Cooler 3B Tubeside Outlet Nozzle to Channel Body (Inside Radius Section). Do not inspect, See Relief Request in Section 9 of General Requirements.
Class A		51A	OM 201-3107					0.875		
			O-ISIN4-101A-3.1		Nozzle to	Channel Body				
Total B03.160 Items:		2								
Total B03 Items:		28								

### **CATEGORY B-F, Pressure Retaining** **Dissimilar Metal Welds In Vessel Nozzles**

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## Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** NPS 4 or Larger; Nozzle-to-Safe End Butt Welds ****</b>									
B05.010.001	3-RPV-WR53		ISI-OCN3-001	See Com	PT	SS-CS	15.630	NAVSHIPS	RV A-Side Core Flood Nozzle Pc. 17 to Safe End
	Circumferential	50	OM 2201-96				1.688		Pc. 89. W-Axis. The automated UT performed from
Class A	Term end		O-2479A		Nozzle to				the ID of the Reactor Vessel on this weld will be
	Dissimilar				Safe End				substituted for this surface exam. Reference
									Request for Relief ###. Procedure # WDI-SSP-106.
B05.010.001A	3-RPV-WR53		ISI-OCN3-001	See Com	UT	SS-CS	15.630	NAVSHIPS	RV A-Side Core Flood Nozzle Pc. 17 to Safe End
	Circumferential	50	OM 2201-96				1.688		Pc. 89.W-Axis. Procedure # PDI-ISI-254-CF-SE.
Class A	Term end		O-2479A		Nozzle to				
	Dissimilar				Safe End				
B05.010.002	3-RPV-WR53A		ISI-OCN3-001	See Com	PT	SS-CS	15.630	NAVSHIPS	RV B-Side Core Flood Nozzle Pc. 17 to Safe End
	Circumferential	50	OM 2201-96				1.688		Pc. 89. Y-Axis. The automated UT performed from
Class A	Term end		O-2479A		Nozzle to				the ID of the Reactor Vessel on this weld will be
	Dissimilar				Safe End				substituted for this surface exam. Reference
									Request for Relief ###. Procedure # WDI-SSP-106.
B05.010.002A	3-RPV-WR53A		ISI-OCN3-001	See Com	UT	SS-CS	15.630	NAVSHIPS	RV B-Side Core Flood Nozzle Pc. 17 to Safe End
	Circumferential	50	OM 2201-96				1.688		Pc. 89. Y-Axis. Procedure # PDI-ISI-254-CF-SE.
Class A	Term end		O-2479A		Nozzle to				
	Dissimilar				Safe End				
<b>Total B05.010 Items:</b>		<b>4</b>							
<b>Total B05 Items:</b>		<b>4</b>							

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

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## Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Head Nuts ****									
B06.010.001	3-RPV-26-209-1	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.002	3-RPV-26-209-02	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.003	3-RPV-26-209-03	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.004	3-RPV-26-209-04	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.005	3-RPV-26-209-05	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.006	3-RPV-26-209-06	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.007	3-RPV-26-209-07	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.008	3-RPV-26-209-08	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									

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

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## Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.010.009	3-RPV-26-209-09	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.010	3-RPV-26-209-10	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.011	3-RPV-26-209-11	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.012	3-RPV-26-209-12	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.013	3-RPV-26-209-13	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.014	3-RPV-26-209-14	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.015	3-RPV-26-209-15	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.016	3-RPV-26-209-16	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									
B06.010.017	3-RPV-26-209-17	50	OM 201-2271 B&W 149922	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Head Nut.
Class A									

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
B06.010.018	3-RPV-26-209-18	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.019	3-RPV-26-209-19	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
B06.010.020	3-RPV-26-209-20	50	OM 201-2271 B&W 149922	QAL-13	VT-1 CS	9.250 1.300	Reactor Vessel Closure Head Nut.
Class A							
<hr/>							
Total B06.010 Items:		20					



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

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## Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Studs, when removed ****									
B06.030.001	3-RPV-25-209-01	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.002	3-RPV-25-209-02	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.003	3-RPV-25-209-03	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.004	3-RPV-25-209-04	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.005	3-RPV-25-209-05	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.006	3-RPV-25-209-06	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.007	3-RPV-25-209-07	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.008	3-RPV-25-209-08	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.009	3-RPV-25-209-09	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.010	3-RPV-25-209-10	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.011	3-RPV-25-209-11	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.012	3-RPV-25-209-12	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.013	3-RPV-25-209-13	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.014	3-RPV-25-209-14	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.015	3-RPV-25-209-15	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.016	3-RPV-25-209-16	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.017	3-RPV-25-209-17	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									

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

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
**Inservice Inspection Database Management System**

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### Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.018	3-RPV-25-209-18	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.019	3-RPV-25-209-19	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
B06.030.020	3-RPV-25-209-20	50	OM 201-2271 B&W 149922	PDI-UT-5	UT	CS	6.500 0.000	40420	Reactor Closure Stud-Removed. Stud Length = 63.250.
Class A									
Total B06.030 Items:		20							

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

DUKE ENERGY CORPORATION  
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**Reactor Vessel**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Closure Washers, Bushings ****							
B06.050.001	3-RPV-WASH-BUSH		OM 201-2271	QAL-13	VT-1 CS	9.750	Reactor Vessel Closure Washers and Bushings.
		50	B&W 149922E			0.000	Stud Holes 1-20.

Class A

Total B06.050 Items: 1

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

DUKE ENERGY CORPORATION  
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**Pressurizer**

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**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Flange Surface, when connection disassembled ****									
B06.070.001	3-PZR-MW-FLANGE		OM 201-1026	QAL-13	VT-1	CS		28.000	Pressurizer Manway Flange Surface. Examination includes 1"annular surface surrouding each stud. Inspect when connection is disassembled. * Do not count in totals.
		50	B&W 149793E					0.000	
Class A									

Total B06.070 Items: 1

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

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

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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
<b>**** Flange Surface, when connection disassembled ****</b>									
B06.190.001	3-RCP-3A1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.002	3-RCP-3A2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3A2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.003	3-RCP-3B1-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B1 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
B06.190.004	3-RCP-3B2-FLANGE		OM 1201.D-0005	QAL-13	VT-1	SS		0.000	Reactor Coolant Pump 3B2 Main Flange.
		50	OM 1201.D-0057					0.000	Examination includes 1" annular surface of flange surrounding each stud. * Do not count in totals. Inspect only if disassembled.
Class A									
<b>Total B06.190 Items:</b>		<b>4</b>							

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

**Pumps**

**DUKE ENERGY CORPORATION  
INSERVICE INSPECTION PLAN MANAGEMENT  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nuts, Bushings, and Washers ****									
B06.200.004	3-RCP-3B2-NUTS		OM 1201.D-0059	QAL-13	VT-1	CS		0.000	Reactor Coolant Pump 3B2 Main Flange. 20 nuts, washers, and bushings on one reactor coolant pump only.
		50	OM 1201.D-0057					0.000	
Class A									

Total B06.200 Items:	1
Total B06 Items:	47

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

**Steam Generators**

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****							
B07.030.003	3-SGB-UMW-STUDS		B&W 145470E	QAL-13	VT-1 CS	2.000 0.000	Steam Generator 3B Upper Head Manway Studs and Nuts. 16 studs and nuts. Stud length = 11.500". Examine all studs and nuts.
Class A		50					
B07.030.004	3-SGB-LMW-STUDS		B&W 145470E	QAL-13	VT-1 CS	2.000 0.000	Steam Generator 3B Lower Head Manway Studs and Nuts. 16 studs and nuts. Stud length = 11.500". Examine all studs and nuts.
Class A		50					
Total B07.030 Items:		2					



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

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**CRD Housings**

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**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
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**\*\*\*\* Bolts, Studs, and Nuts \*\*\*\***

B07.080.001	3-RPV-CRD-HOUSING		B&W 149902E	QAL-13	VT-1 NA	0.000	CRD Housing includes bolts (8 bolts per connection) and housing rings (1 pair per housing). Inspect only if disassembled.
		50	B&W 149919E			0.000	
Class A							

Total B07.080 Items:	1
Total B07 Items:	3

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

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

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### Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP	REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>											
B09.011.001	3-PHA-1		ISI-OCN3-005	See Com	UT	CS		42.750	NAVSHIPS		Steam Generator 3A Hot Leg to Reactor Vessel. Reactor Vessel Nozzle to Pipe Pc. 32. Procedure # PDI-ISI-254-SE.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Nozzle to Pipe			2.856			
B09.011.001A	3-PHA-1		ISI-OCN3-005	See Com	MT	CS		42.750	NAVSHIPS		Steam Generator 3A Hot Leg to Reactor Vessel. Reactor Vessel Nozzle to Pipe Pc. 32. The Automated UT performed from the ID of the Reactor Vessel will be substituted for this surface exam. Procedure # WDI-SSP-106.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Nozzle to Pipe			2.856			
B09.011.003	3-PHB-1		ISI-OCN3-006	See Com	UT	CS		42.750	NAVSHIPS		Steam Generator 3B Hot Leg to Reactor Vessel. Reactor Vessel Nozzle to Pipe Pc. 32. Procedure # PDI-ISI-254-SE.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Nozzle to Pipe			2.856			
B09.011.003A	3-PHB-1		ISI-OCN3-006	See Com	MT	CS		42.750	NAVSHIPS		Steam Generator 3B Hot Leg to Reactor Vessel. Reactor Vessel Nozzle to Pipe Pc. 32. The Automated UT performed from the ID of the Reactor Vessel will be substituted for this surface exam. Procedure # WDI-SSP-106.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Nozzle to Pipe			2.856			
B09.011.018	3-PDA1-8		ISI-OCN3-011	See Com	UT	CS		33.500	NAVSHIPS		Pump 3A1 Discharge Piping. Pipe Pc. 38 to Reactor Vessel Inlet Nozzle. Procedure # PDI-ISI-254-SE.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Pipe to Nozzle			2.330			
B09.011.018A	3-PDA1-8		ISI-OCN3-011	See Com	MT	CS		33.500	NAVSHIPS		Pump 3A1 Discharge Piping. Pipe Pc. 38 to Reactor Vessel Inlet Nozzle. The Automated UT performed from the ID of the Reactor Vessel will be substituted for this surface exam. Procedure # WDI-SSP-106.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Pipe to Nozzle			2.330			
B09.011.020	3-PDA2-8		ISI-OCN3-012	See Com	UT	CS		33.500	NAVSHIPS		Pump 3A2 Discharge Piping. Pipe Pc. 38 to Reactor Vessel Inlet Nozzle. Procedure # PDI-ISI-254-SE.
Class A	Circumferential	50	O-ISIN4-100A-3.1		Pipe to Nozzle			2.330			
B09.011.020A	3-PDA2-8		ISI-OCN3-012	See Com	MT	CS		33.500	NAVSHIPS		Pump 3A2 Discharge Piping. Pipe Pc. 38 to Reactor Vessel Inlet Nozzle. The Automated UT performed from the ID of the Reactor Vessel will be substituted for this surface exam. Procedure #
Class A	Circumferential	50	O-ISIN4-100A-3.1		Pipe to Nozzle			2.330			

CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									WDI-SSP-106.
B09.011.021	3-PDB1-2		ISI-OCN3-013	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3B1 Discharge Piping. Safe End Pc. 49 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	Elbow Pc. 53. Perform UT from Elbow Side and
Class A					Safe End to				Safe End Side.
	Dissimilar				Elbow				
B09.011.021A	3-PDB1-2		ISI-OCN3-013	NDE-35	PT	SS-CS	33.500		Pump 3B1 Discharge Piping. Safe End Pc. 49 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Elbow Pc. 53.
Class A					Safe End to				
	Dissimilar				Elbow				
B09.011.022	3-PDB1-8		ISI-OCN3-013	See Com	UT	CS	33.500	NAVSHIPS	Pump 3B1 Discharge Piping. Pipe Pc. 38 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Reactor Vessel Inlet Nozzle.
Class A	Term end				Pipe to				Procedure # PDI-ISI-254-SE.
					Nozzle				
B09.011.022A	3-PDB1-8		ISI-OCN3-013	See Com	MT	CS	33.500	NAVSHIPS	Pump 3B1 Discharge Piping. Pipe Pc. 38 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Reactor Vessel Inlet Nozzle.
Class A	Term end				Pipe to				The Automated UT performed from the ID of the
					Nozzle				Reactor Vessel will be substituted for this surface
									exam. Procedure # WDI-SSP-106.
B09.011.023	3-PDB2-2		ISI-OCN3-014	PDI-UT-10	UT	SS-CS	33.500	40350	Pump 3B2 Discharge Piping. Safe End Pc. 49 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330	40397	Elbow Pc. 53. Perform UT from Elbow Side and
Class A					Safe End to				Safe End Side.
	Dissimilar				Elbow				
B09.011.023A	3-PDB2-2		ISI-OCN3-014	NDE-35	PT	SS-CS	33.500		Pump 3B2 Discharge Piping. Safe End Pc. 49 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Elbow Pc. 53.
Class A					Safe End to				
	Dissimilar				Elbow				
B09.011.024	3-PDB2-8		ISI-OCN3-014	See Com	UT	CS	33.500	NAVSHIPS	Pump 3B2 Discharge Piping. Pipe Pc. 38 to
	Circumferential	50	O-ISIN4-100A-3.1				2.330		Reactor Vessel Inlet Nozzle.
Class A	Term end				Pipe to				Procedure # PDI-ISI-254-SE.
					Nozzle				

CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

DUKE ENERGY CORPORATION  
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B09.011.024A	3-PDB2-8		ISI-OCN3-014	See Com	MT	CS	33.500	NAVSHIPS	Pump 3B2 Discharge Piping. Pipe Pc. 38 to Reactor Vessel Inlet Nozzle. The Automated UT performed from the ID of the Reactor Vessel will be substituted for this surface exam. Procedure # WDI-SSP-106.
	Circumferential	50	O-ISIN4-100A-3.1				2.330		
Class A	Term end				Pipe to Nozzle				
B09.011.026	3-PSL-2		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 81. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000		
Class A	Stress weld				Elbow to Pipe				
B09.011.026A	3-PSL-2		ISI-OCN3-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 81.
	Circumferential	50	O-ISIN4-100A-3.2				1.000		
Class A	Stress weld				Elbow to Pipe				
B09.011.028	3-PSL-4		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 82. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000		
Class A	Stress weld				Elbow to Pipe				
B09.011.028A	3-PSL-4		ISI-OCN3-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 82
	Circumferential	50	O-ISIN4-100A-3.2				1.000		
Class A	Stress weld				Elbow to Pipe				
B09.011.029	3-PSL-5		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Pipe Pc. 82 to Pipe Pc. 83. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000		
Class A	Stress weld				Pipe to Pipe				
B09.011.029A	3-PSL-5		ISI-OCN3-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Pipe Pc. 82 to Pipe Pc. 83.
	Circumferential	50	O-ISIN4-100A-3.2				1.000		
Class A	Stress weld				Pipe to Pipe				
B09.011.031	3-PSL-7		ISI-OCN3-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 84. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration
	Circumferential	50	O-ISIN4-100A-3.2	See Com			1.000		
Class A	Stress weld				Elbow to Pipe				

CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
block PDI-UT-2-O should be used.									
B09.011.031A	3-PSL-7		ISI-OCN3-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 84.
Class A	Circumferential Stress weld	50	O-ISIN4-100A-3.2		Elbow to Pipe		1.000		
B09.011.050	3-53A-18-6		3-53A-18	NDE-600	UT	SS	12.000	See Com	Depending upon the examiners qualifications; procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class A	Circumferential	53A	O-ISIN4-102A-3.1	See Com	Pipe to Elbow		1.125		
B09.011.050A	3-53A-18-6		3-53A-18	NDE-35	PT	SS	12.000		
Class A	Circumferential	53A	O-ISIN4-102A-3.1		Pipe to Elbow		1.125		
B09.011.051	3-53A-18-8		3-53A-18	NDE-600	UT	SS	12.000	See Com	Depending upon the examiners qualifications; procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class A	Circumferential	53A	O-ISIN4-102A-3.1	See Com	Pipe to Elbow		1.125		
B09.011.051A	3-53A-18-8		3-53A-18	NDE-35	PT	SS	12.000		
Class A	Circumferential	53A	O-ISIN4-102A-3.1		Pipe to Elbow		1.125		
B09.011.054	3-PHB-17		ISI-OCN3-006	PDI-UT-10	UT	CS-Inconel	10.750	40414 40354	Steam Senerator 3B Hot Leg to Reactor Vessel. PZR Surge Nozzle Pc. 25 to Safe End Buttering. Perform UT from the Nozzle Side and Safe End Side. Inspect with B09.011.056.
Class A	Circumferential Dissimilar	50	O-ISIN4-100A-3.1		Nozzle to Safe End Buttering		1.000		
B09.011.054A	3-PHB-17		ISI-OCN3-006	NDE-35	PT	CS-Inconel	10.750		Steam Generator 3B Hot Leg to Reactor Vessel. PZR Surge Nozzle Pc. 25 to Safe End Buttering. Inspect with B09.011.056A.
Class A	Circumferential Dissimilar	50	O-ISIN4-100A-3.1		Nozzle to Safe End Buttering		1.000		
B09.011.056	3-PSL-10		ISI-OCN3-015	PDI-UT-10	UT	SS-Inconel	10.000	40414 40354	Pressurizer Surge Piping. Surge Nozzle Pc. 25 to Pipe Pc. 85. Perform UT from the Nozzle Side and Pipe Side. Inspect with B09.011.054.
Class A	Circumferential Stress weld Dissimilar	50	O-ISIN4-100A-3.2		Nozzle to Pipe		1.000		

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

**NPS 4 or Larger**

**DUKE ENERGY CORPORATION**  
**INSERVICE INSPECTION PLAN MANAGEMENT**  
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B09.011.056A	3-PSL-10		ISI-OCN3-015	NDE-35	PT	SS-Inconel	10.000		Pressurizer Surge Piping. Surge Nozzle Pc. 25 to
Class A	Circumferential	50	O-ISIN4-100A-3.2				1.000		Pipe Pc. 85. Inspect with B09.011.054A.
	Stress weld Dissimilar				Nozzle to Pipe				
B09.011.057	3-PSP-1		ISI-OCN3-016	PDI-UT-10	UT	SS-Inconel	4.000	50373	Pressurizer Spray Piping. Spray Nozzle Pc. 45 to
Class A	Circumferential	50	O-ISIN4-100A-3.2				0.438	40406	Pipe Pc. 90. Perform UT from the Nozzle Side and
	Term end Dissimilar				Nozzle to Pipe				Pipe Side.
B09.011.057A	3-PSP-1		ISI-OCN3-016	NDE-35	PT	SS-Inconel	4.000		Pressurizer Spray Piping. Spray Nozzle Pc. 45 to
Class A	Circumferential	50	O-ISIN4-100A-3.2				0.438		Pipe Pc. 90.
	Term end Dissimilar				Nozzle to Pipe				
<b>Total B09.011 Items:</b>		<b>34</b>							

CATEGORY B-J, Pressure Retaining Welds In Piping

Less Than NPS 4

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Welds ****									
B09.021.007	3-PDB1-11		ISI-OCN3-013	NDE-35	PT	SS-CS	3.500		Pump 3B1 Discharge Piping. HPI Nozzle Pc. 46 to
	Circumferential	50	O-ISIN4-100A-3.1				0.750		Safe End Pc. 47. Inspect with G02.001.006C.
Class A	Dissimilar				Nozzle to				Safe End
B09.021.011	3-PDB2-11		ISI-OCN3-014	NDE-35	PT	SS-CS	3.500		Pump 3B2 Discharge Piping. HPI Nozzle Pc. 46 to
	Circumferential	50	O-ISIN4-100A-3.1				0.750		Safe End Pc. 47. Inspect with G02.001.006D.
Class A	Dissimilar				Nozzle to				Safe End
B09.021.014	3-PSP-4		ISI-OCN3-016	NDE-35	PT	SS	2.500		Pressurizer Spray Piping. Reducer Pc. 102 to Pipe
	Circumferential	50	O-ISIN4-100A-3.2				0.375		Pc. 92.
Class A	Stress weld				Reducer to				Pipe
B09.021.016	3-PSP-6		ISI-OCN3-016	NDE-35	PT	SS	2.500		Pressurizer Spray Piping. Elbow Pc. 98 to Tee Pc.
	Circumferential	50	O-ISIN4-100A-3.2				0.375		101.
Class A	Stress weld				Elbow to				Tee
B09.021.028	3HP-242-25		3HP-242	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-61-25 until
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		iso 3-51A -61 was redrawn.
Class A					Pipe to				Elbow
B09.021.029	3HP-242-27		3HP-242	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-61-27 until
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		iso 3-51A -61 was redrawn.
Class A					Pipe to				Flange
B09.021.030	3HP-242-37A		3HP-242	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-61-37A
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		until iso 3-51A -61 was redrawn.
Class A					Pipe to				Elbow
B09.021.031	3HP-242-38A		3HP-242	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-61-38A
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		until iso 3-51A -61 was redrawn.
Class A					Elbow to				Pipe

CATEGORY B-J, Pressure Retaining Welds In Piping

Less Than NPS 4

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.021.045	3RC-211-64		3RC-211	NDE-35	PT	SS	2.500		Inspect with G02.001.008A.
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		
Class A					Pipe to				
					Safe End				
B09.021.046	3RC-211-54		3RC-211	NDE-35	PT	SS	2.500		Inspect with G02.001.010A.
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		
Class A	Stress weld				Pipe to				
					Valve 3HP-127				
B09.021.047	3HP-240-11		3HP-240	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-64-11 until
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		iso 3-51A -64 was redrawn.
Class A					Pipe to				
					Flange				
B09.021.048	3RC-210-31		3RC-210	NDE-35	PT	SS	2.500		Inspect with G02.001.010B.
	Circumferential	51A	O-ISIN4-101A-3.4				0.375		
Class A	Stress weld				Valve 3HP-126 to				
					Pipe				
B09.021.049	3RC-210-24A		3RC-210	NDE-35	PT	SS	2.500		This weld was listed previously as 3-51A-64-24A
	Circumferential	51A	O-ISIN4-100A-3.1				0.375		until iso 3-51A -64 was redrawn.
Class A	Stress weld				Pipe to				Inspect with G02.001.008B.
					Safe End				
B09.021.063	3RC-259-6		3RC-259	NDE-35	PT	SS	1.500		
	Circumferential	50	O-ISIN4-100A-3.2				0.281		
Class A	Stress weld				Pipe to				
					Valve 3LP-46				

Total B09.021 Items: 14



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

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## Branch Pipe Connection Welds

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Less Than NPS 4 ****									
B09.032.006	3-PDB1-10		ISI-OCN3-013	NDE-25	MT	CS	12.000		Pump 3B1 Discharge Piping. Pipe Pc. 44 to HPI
	Branch	50	O-ISIN4-100A-3.1				2.250		Nozzle Pc. 46. The NPS of the branch line is 2.5
Class A	Stress weld				Pipe to				inches.
					Nozzle				
B09.032.008	3-PDB2-10		ISI-OCN3-014	NDE-25	MT	CS	12.000		Pump 3B2 Discharge Piping. Pipe Pc. 44 to HPI
	Branch	50	O-ISIN4-100A-3.1				2.250		Nozzle Pc. 46. The NPS of the branch line is 2.5
Class A	Stress weld				Pipe to				inches.
					Nozzle				
Total B09.032 Items:		2							

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

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## Socket Welds

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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B09.040.006	3-50-152-7		3-50-152	NDE-35	PT	SS	1.500
	Socket	50	O-15IN4-100A-3.2				0.281
Class A					Elbow to	Pipe	

**Total B09.040 Items: 1**

**Total B09 Items: 51**

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

**Pressure Vessels**

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**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

B10.010.002	3-PZR-WP82-X		ISI-OCN3-002	NDE-25	MT	NA	0.000	Pressurizer Support Lug Assembly Pc.110 to Lower
		50	O-ISIN4-100A-3.2				0.000	Shell Pc.3. X-Axis.
Class A			OM 2201-229		Suipport Lug to			Shell

**Total B10.010 Items: 1**

**Total B10 Items: 4**

CATEGORY B-L-2, Pump Casings

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Pumps

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Pump Casing ****									
B12.020.001	3RCP-3A1-CASING	50	ISI-OCN3-007	QAL-14	VT-3	SS	68.000		Reactor Coolant Pump 3A1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057				0.000		
			OM-1201D-0005						
B12.020.002	3RCP-3A2-CASING	50	ISI-OCN3-008	QAL-14	VT-3	SS	68.000		Reactor Coolant Pump 3A2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057				0.000		
			OM-1201D-0005						
B12.020.003	3RCP-3B1-CASING	50	ISI-OCN3-009	QAL-14	VT-3	SS	68.000		Reactor Coolant Pump 3B1 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057				0.000		
			OM-1201D-0005						
B12.020.004	3RCP-3B2-CASING	50	ISI-OCN3-010	QAL-14	VT-3	SS	68.000		Reactor Coolant Pump 3B2 Casing Internal Surfaces. Inspect only if disassembled for maintenance, repair, or volumetric examination.
Class A			OM-1201D-0057				0.000		
			OM-1201D-0005						
Total B12.020 Items:		4							

**CATEGORY B-M-2, Valve Body**

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**Valves****Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
<b>**** Valve Body, Exceeding NPS 4 ****</b>							
B12.050.001	3-53A-CF-11	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	A-Side Core Flood Valve Body 3CF-11 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.002	3-53A-CF-12	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	A-Side Core Flood Valve Body 3CF-12 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.003	3-53A-CF-13	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	B-Side Core Flood Valve Body 3CF-13 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.004	3-53A-CF-14	53	OM-245-001 O-ISIN4-102A-3.3	QAL-14	VT-3 SS	14.000 0.000	B-Side Core Flood Valve Body 3CF-14 Internal Surfaces. W Axis. Inspect one of the following valves: 3CF-11, 3CF-12, 3CF-13, or 3CF-14 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.005	3-53A-LP-47	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3 SS	10.000 0.000	B-Side LPI Valve Body 3LP-47 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.006	3-53A-LP-48	53	OM-245-001 O-ISIN4-102A-3.2	QAL-14	VT-3 SS	10.000 0.000	B-Side LPI Valve Body 3LP-48 Internal Surfaces. Inspect one of the following valves: 3LP-47 or 3LP-48 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							
B12.050.007	3-53A-LP-1	53	OM-201-165 O-ISIN4-102A-3.1	QAL-14	VT-3 SS	12.000 0.000	Decay Heat Suction Valve Body 3LP-1 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
Class A							

CATEGORY B-M-2, Valve Body

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Valves

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIATHK CAL BLOCKS	COMMENTS
B12.050.008	3-53A-LP-2		OM-201-165	QAL-14	VT-3 SS	12.000	Decay Heat Suction Valve Body 3LP-2 Internal Surfaces. Inspect one of the following valves: 3LP-1 or 3LP-2 only if valve is disassembled for maintenance, repair, or volumetric examination.
		53	O-ISIN4-102A-3.1			0.000	
Class A							

Total B12.050 Items:	8
Total B12 Items:	12

CATEGORY B-N-1, Interior Of Reactor Vessel

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Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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\*\*\* Vessel Interior \*\*\*

B13.010.001	3-RPV-INT-SUR		ISI-OCN3-001	See Com	VT-3 SS	0.000 0.000	Reactor Vessel Interior. Procedure # WDI-STD-088.
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Class A

Total B13.010 Items: 1



**CATEGORY B-N-2, Welded Core Support Structures And Interior Attachments To RV**

### Reactor Vessel (PWR)

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Interior Attachments Within Beltline Region \*\*\*\***

B13.050.001	3-RPV-INT-LUGS	50	ISI-OCN3-001	See Com	VT-1 SS	0.000	Reactor Vessel Core Guide Lugs. Procedure #
			OM-2201-51			0.000	WDI-STD-088.

### Class A

**Total B13.050 Items: 1**

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

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**Reactor Vessel (PWR)**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Core Support Structure \*\*\*\***

B13.070.001	3-RPV-INTERNALS		ISI-OCN3-001	See Com	VT-3	NA	0.000	Core Support Structure Welds, Bolting, & Surfaces.
		50	OM-2201-225				0.000	Procedure # WDI-STD-088.

Class A

Total B13.070 Items:	1
Total B13 Items:	3

CATEGORY C-A, Pressure Retaining Welds In  
Pressure Vessels

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Shell Circumferential Welds

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.010.001	3-SGA-WG8-1		ISI-OCN3-003	TBD	UT	CS	138.000	TBD	Steam Generator 3A Shell to Shell Pc.1 to Pc.2.
	Circumferential	03	OM-2201-222				4.188		
Class B					Shell to Shell				
C01.010.002	3-SGA-WG8-2		ISI-OCN3-003	TBD	UT	CS	138.000	TBD	Steam Generator 3A Shell Pc.2 to Shell Pc.3.
	Circumferential	03	OM-2201-222				4.188		
Class B					Shell to Shell				
Total C01.010 Items:		2							

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

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## Tubesheet-to-Shell Weld

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.030.003	3LPCB-SH-TUBE		OM 2201-277	NDE-3630	UT	SS	46.000	40385	Decay Heat Cooler 3B Shell to Tubesheet.
	Circumferential	53B	O-ISIN4-102A-3.2				0.750		
	Class B		B&W 36-43-004-00			Shell to Tubesheet			
Total C01.030 Items:		1							
Total C01 Items:		3							

### CATEGORY C-B, Pressure Retaining Nozzle Welds In Vessels

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### Nozzles With Reinforcing Plate in Vessels > 1/2 in. Nom. Thickness

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Reinforcing Plate Welds to Nozzle and Vessel ****									
C02.031.001	3-LPCB-INLET		OM 2201-0277	NDE-35	PT	SS	16.000		Decay Heat Removal Cooler 3B Inlet Nozzle.
	Circumferential	53A	O-ISIN4-102A-3.2				0.750		Reinforcing Plate welds to Nozzle and Vessel.
Class B					Nozzle to Shell				
C02.031.002	3-LPCB-OUTLET		OM 2201-0277	NDE-35	PT	SS	16.000		Decay Heat Removal Cooler 3B Outlet Nozzle.
	Circumferential	53A	O-ISIN4-102A-3.2				0.750		Reinforcing Plate welds to Nozzle and Vessel.
Class B					Nozzle to Shell				
<b>Total C02.031 Items: 2</b>									
<b>Total C02 Items: 2</b>									

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

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## Pressure Vessels

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### Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.010.002	3SGB-WG84/87-XY		OM 2201-1451	NDE-25	MT	CS		0.000	Steam Generator 3B Feedwater Header Attachment
		03	O-ISIN4-121B-3.3					1.000	in X-Y Quadrant. Attachment closest to X-Axis.
Class B			B&W-149824E		Pc. 152 & 153 to Shell				
Total C03.010 Items:		1							

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

## Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>									
C03.020.041	3-51A-1-0-2439A-SR6		3-51-04/sht.1	NDE-35	PT	NA		4.000	Calculation No. OSC-541. Inspect with F01.021.042.
	Rigid Restraint	51A	O-ISIN4-101A-3.4					1.000	
Class B									
C03.020.044	3-51B-3-0-2436G-H62		3-51-02/sht.3	NDE-35	PT	NA		4.000	Calculation No. OSC-539. Inspect with F01.022.023.
	Mech Snubber	51B	O-ISIN4-101A-3.2					0.125	
Class B									
C03.020.052	3-53B-7-0-2437A-H85		3-51-02/sht.1	NDE-35	PT	NA		14.000	Calculation No. OSC-539. Inspect with F01.022.031.
	Spring Hgr	53B	O-ISIN4-102A-3.1					0.750	
Class B									
C03.020.058	3-53B-5-0-2436D-R2		3-53-06/sht.1	NDE-35	PT	NA		10.000	Calculation No. OSC-551. Inspect with F01.021.064.
	Rigid Restraint	53B	O-ISIN4-102A-3.2					1.000	
Class B									
C03.020.061	3-54A-3-0-2435B-H35		3-54-01/sht.1	NDE-35	PT	NA		8.000	Calculation No. OSC-554. Inspect with F01.022.041.
	Spring Hgr	54A	O-ISIN4-103A-3.1					1.000	
Class B									
<b>Total C03.020 Items:</b>		<b>5</b>							
<b>Total C03 Items:</b>		<b>6</b>							

**CATEGORY C-D, Pressure Retaining Bolting**  
**Greater Than 2 in. In Diameter**

**DUKE ENERGY CORPORATION**  
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## Pumps

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
**** Bolts and Studs ****										
C04.030.001	3-HPI-PUMP-3A		OM 201-1704	PDI-UT-5	UT	NA		2.500	40422	High Pressure Injection Pump 3A (Casing bolts).
Class B		51A	O-ISIN4-101A-3.3					0.000		The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
C04.030.002	3-HPI-PUMP-3B		OM 201-1704	PDI-UT-5	UT	NA		2.500	40422	High Pressure Injection Pump 3B (Casing bolts).
Class B		51A	O-ISIN4-101A-3.3					0.000		The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
C04.030.003	3-HPI-PUMP-3C		OM 201-1704	PDI-UT-5	UT	NA		2.500	40422	High Pressure Injection Pump 3C (Casing bolts).
Class B		51A	O-ISIN4-101A-3.3					0.000		The bolting for these pumps can not be examined in place, therefore they will be scheduled for Outages 3,4,5,6. If one is disassembled for maintenance it will be examined and credit taken at that time. The remaining pumps will then be removed from the examination schedule. If the disassembly for maintenance does not happen by Outage 6 then the pump must be disassembled in order to perform the examination.
Total C04.030 Items:		3								
Total C04 Items:		3								



**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 3

Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.011.002	3LP-134-76		3LP-134	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-15-76 until iso 3-53A-15 (2) was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B			O-ISIN4-102A-3.3		Pipe to Elbow				
C05.011.002A	3LP-134-76		3LP-134	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-15-76 until iso 3-53A-15 (2) was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B			O-ISIN4-102A-3.3		Pipe to Elbow				
C05.011.003	3LP-134-77		3LP-134	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 3-53A-15-77 until iso 3-53A-15 (2) was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-3.2	See Com			1.125		
Class B			O-ISIN4-102A-3.3		Elbow to Pipe				
C05.011.003A	3LP-134-77		3LP-134	NDE-35	PT	SS	10.000		This weld was listed previously as 3-53A-15-77 until iso 3-53A-15 (2) was redrawn.
	Circumferential	53A	O-ISIN4-102A-3.2				1.125		
Class B			O-ISIN4-102A-3.3		Elbow to Pipe				

Total C05.011 Items: 4

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

Oconee 3  
Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.021.009	3-51A-118-24		3-51A-118	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.009A	3-51A-118-24		3-51A-118	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.018	3-51A-120-20		3-51A-120	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Pipe		0.531		
C05.021.018A	3-51A-120-20		3-51A-120	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.531		
C05.021.026	3-51A-140-23		3-51A-140	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Elbow to Pipe		0.375		
C05.021.026A	3-51A-140-23		3-51A-140	NDE-35	PT	SS	2.500		
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.1		Elbow to Pipe		0.375		
C05.021.027	3-51A-141-22		3-51A-141	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Reducer to Elbow		0.375		
C05.021.027A	3-51A-141-22		3-51A-141	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Reducer to Elbow		0.375		

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Inservice Inspection Plan for Interval 4 Outage 6

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.036	3-51A-52-34		3-51A-52	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.3	See Com			0.531		
Class B					Pipe to Tee				
C05.021.036A	3-51A-52-34		3-51A-52	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.3				0.531		
Class B					Pipe to Tee				
C05.021.045	3-51A-59-16A		3-51A-59	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
Class B					Elbow to Pipe				
C05.021.045A	3-51A-59-16A		3-51A-59	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
Class B					Elbow to Pipe				
C05.021.049	3-51A-67-3		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
Class B					Pipe to Elbow				
C05.021.049A	3-51A-67-3		3-51A-67	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
Class B					Pipe to Elbow				
C05.021.051	3HP-241-2		3HP-241	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 3-51A-63-2 until iso 3-51A -63 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.674		
Class B					Pipe to Valve 3HP-194				
C05.021.051A	3HP-241-2		3HP-241	NDE-35	PT	SS	4.000		This weld was listed previously as 3-51A-63-2 until iso 3-51A -63 was redrawn.
	Circumferential	51A	O-ISIN4-101A-3.4				0.674		
Class B					Pipe to Valve 3HP-194				

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 3

Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.058	3-51A-87-10B		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Valve 3HP-132		0.531		
C05.021.058A	3-51A-87-10B		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-132		0.531		
C05.021.059	3-51A-87-11B		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Valve 3HP-132 to Pipe		0.531		
C05.021.059A	3-51A-87-11B		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Valve 3HP-132 to Pipe		0.531		
C05.021.062	3-51A-87-40		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Pipe to Elbow		0.531		
C05.021.062A	3-51A-87-40		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.531		
C05.021.068	3-RCP-FTR3A-SH-1		3-51A-87	NDE-12	RT	SS	4.000		
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.4 OM-201-0473-001		Flange to RCP 3A Filter		0.531		
C05.021.068A	3-RCP-FTR3A-SH-1		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.4 OM-201-0473-001		Flange to RCP 3A Filter		0.531		
C05.021.069	3-RCP-FTR3A-SH-2		3-51A-87	NDE-12	RT	SS	4.000		
Class B	Circumferential Term end	51A	O-ISIN4-101A-3.4 OM-201-0473-001		RCP 3A Filter to Flange		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 3

**Inservice Inspection Plan for Interval 4 Outage 6**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.069A	3-RCP-FTR3A-SH-2		3-51A-87	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B	Term end		OM-201-0473-001			RCP 3A Filter to Flange			
C05.021.076	3-51A-119-11		3-51A-119	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.4	See Com			0.531		
Class B						Flange to Pipe			
C05.021.076A	3-51A-119-11		3-51A-119	NDE-35	PT	SS	4.000		
	Circumferential	51A	O-ISIN4-101A-3.4				0.531		
Class B						Flange to Pipe			
C05.021.079	3-51A-140-21		3-51A-140	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
Class B						Elbow to Pipe			
C05.021.079A	3-51A-140-21		3-51A-140	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
Class B						Elbow to Pipe			
C05.021.081	3-51A-141-14		3-51A-141	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.1	See Com			0.375		
Class B						Elbow to Pipe			
C05.021.081A	3-51A-141-14		3-51A-141	NDE-35	PT	SS	2.500		
	Circumferential	51A	O-ISIN4-101A-3.1				0.375		
Class B						Elbow to Pipe			
C05.021.086	3-51A-52-72A		3-51A-52	NDE-600	UT	SS	3.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-3.3	See Com			0.438		
Class B						Reducer to Pipe			
C05.021.086A	3-51A-52-72A		3-51A-52	NDE-35	PT	SS	3.000		
	Circumferential	51A	O-ISIN4-101A-3.3				0.438		
Class B						Reducer 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 3

### Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.021.091	3-51A-67-4		3-51A-67	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.1	See Com	Elbow to Pipe		0.375		
C05.021.091A	3-51A-67-4		3-51A-67	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-3.1		Elbow to Pipe		0.375		
C05.021.096	3-51A-87-37		3-51A-87	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-3.4	See Com	Elbow to Tee		0.531		
C05.021.096A	3-51A-87-37		3-51A-87	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Tee		0.531		
Total C05.021 Items:		38							

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

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>										
C05.051.003	3MS-117-23		3MS-117	NDE-600	UT	CS	8.000	See Com		This weld was listed previously as 3-01A-10-23 on iso 3-01A-10 until it was transferred to iso 3MS-117. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.3	See Com	Pipe to Elbow		0.500			
C05.051.003A	3MS-117-23		3MS-117	NDE-25	MT	CS	8.000			This weld was listed previously as 3-01A-10-23 on iso 3-01A-10 until it was transferred to iso 3MS-117.
Class B	Circumferential	01A	O-ISIN4-122A-3.3		Pipe to Elbow		0.500			
C05.051.004	3-01A-13-2		3-01A-13	NDE-600	UT	CS	36.000	See Com		Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.1	See Com	Pipe to Elbow		1.164			
C05.051.004A	3-01A-13-2		3-01A-13	NDE-25	MT	CS	36.000			
Class B	Circumferential	01A	O-ISIN4-122A-3.1		Pipe to Elbow		1.164			
C05.051.005	3MS-121-61		3MS-121	NDE-600	UT	CS	12.000	See Com		This weld was listed Previously as 3-01A-13-48 until it was deleted and rewelded as 3MS-121-61. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.2	See Com	Pipe to Valve 3MS-17		0.562			
C05.051.005A	3MS-121-61		3MS-121	NDE-25	MT	CS	12.000			This weld was listed Previously as 3-01A-13-48 until it was deleted and rewelded as 3MS-121-61.
Class B	Circumferential	01A	O-ISIN4-122A-3.2		Pipe to Valve 3MS-17		0.562			
C05.051.014	3MS-16A-A		3-01A-9	NDE-600	UT	CS	36.000	See Com		Grinnell Subassembly 3MS-16A Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.1 3MS-16A	See Com	Elbow to Pipe		1.164			

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

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

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Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.014A	3MS-16A-A		3-01A-9	NDE-25	MT	CS	36.000		Grinnell Subassembly 3MS-16A
Class B	Circumferential	01A	O-ISIN4-122A-3.1				1.164		
			3MS-16A		Elbow to Pipe				
C05.051.015	3-01A-9-19		3-01A-9	NDE-600	UT	CS	36.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	01A	O-ISIN4-122A-3.1	See Com			1.164		
					Pipe to Elbow				
C05.051.015A	3-01A-9-19		3-01A-9	NDE-35	PT	CS	36.000		
Class B	Circumferential	01A	O-ISIN4-122A-3.1				1.164		
					Pipe to Elbow				
C05.051.022	3FDW-197-4		3FDW-197	NDE-600	UT	CS	6.000	See Com	This weld was listed previously as 3-03A-145-22 until iso 3-03A-145 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	03A	O-ISIN4-121D-3.1	See Com			0.432		
					Pipe to Valve 3FDW-233				
C05.051.022A	3FDW-197-4		3FDW-197	NDE-25	MT	CS	6.000		This weld was listed previously as 3-03A-145-22 until iso 3-03A-145 was redrawn.
Class B	Circumferential	03A	O-ISIN4-121D-3.1				0.432		
					Pipe to Valve 3FDW-233				
C05.051.035	3LPS-475-16		3LPS-475	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-16 until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		
					Pipe to Elbow				
C05.051.035A	3LPS-475-16		3LPS-475	NDE-25	MT	CS	8.000		This weld was listed previously as 3-14B-119-16 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2				0.500		
					Pipe to Elbow				
C05.051.040	3LPS-478-57		3LPS-478	NDE-600	UT	CS	8.000	See Com	This weld was listed previously as 3-14B-119-57 until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com			0.500		
					Pipe to Elbow				



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

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

**DUKE ENERGY CORPORATION**  
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.040A	3LPS-478-57		3LPS-478	NDE-25	MT	CS		8.000	This weld was listed previously as 3-14B-119-57 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2		Pipe to Elbow			0.500	
C05.051.043	3LPS-475-61		3LPS-475	NDE-600	UT	CS		8.000	This weld was listed previously as 3-14B-119-61 until iso 3-14B-119 was redrawn. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-3.2	See Com	Pipe to Pipe			0.500	
C05.051.043A	3LPS-475-61		3LPS-475	NDE-25	MT	CS		8.000	This weld was listed previously as 3-14B-119-61 until iso 3-14B-119 was redrawn.
Class B	Circumferential	14B	O-ISIN4-124B-3.2		Pipe to Pipe			0.500	
Total C05.051 Items:		18							

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**CATEGORY C-F-2, Pressure Retaining Welds**  
**In Carbon Or Low Alloy Steel Piping****Pipe Branch Connections of Branch Piping >=****NPS 2**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Circumferential Weld \*\*\*\***

C05.081.003	3FWD-83-C		3-03-27	NDE-25	MT	CS	24.000		Grinnell Subassembly 3FWD-83. Inspect both welds on the Reinforcing collar.
	Branch	03	O-ISIN4-121B-3.3				1.218		
	Class B		3FWD-83		Pipe to				
					Pipe				

Total C05.081 Items:	1
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Total C05 Items:	61
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### **CATEGORY D-A, Welded Attachments For Vessels, Piping, Pumps, And Valves**

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## **Pressure Vessels**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Welded Attachments \*\*\*\***

D01.010.001	3-SF-COOLER-A	OM 201-84	QAL-13	VT-1	NA	0.000	Spent Fuel Cooler 3A Support Legs.
	56	O-ISIN4-104A-3.1				0.000	

### Class C

## Attachment to Shell

**Total D01.010 Items: 1**

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

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## Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Welded Attachments ****</b>									
D01.020.022	3-03-0-2401A-H48		3-03-01/sht.1	QAL-13	VT-1	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					0.322	Inspect with item number H04.001.011 and F01.032.021.
Class C									
D01.020.023	3-03-0-2401A-H49		3-03-01/sht.1	QAL-13	VT-1	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					1.500	Inspect with item number H04.001.009 and F01.032.022.
Class C									
D01.020.061	3-13-7-0-2400A-H8		3-13-07/sht.1	QAL-13	VT-1	NA		12.000	Calculation No. OSC-523. Inspect with F01.032.061.
	Spring Hgr	13	O-ISIN4-133A-3.2					0.500	
Class C									
D01.020.073	3-14B-6-0-2439A-H18		3-14-05/sht.2	QAL-13	VT-1	NA		14.000	Calculation No. OSC-531. Inspect with F01.032.072.
	Spring Hgr	14B	O-ISIN4-124B-3.1					1.500	
Class C									
D01.020.081	3-56-5-0-2437A-H5		3-56-01/sht.1	QAL-13	VT-1	NA		8.000	Calculation No. OSC-567. Inspect with F01.032.081.
	Spring Hgr	56	O-ISIN4-104A-3.1					0.500	
Class C									
<b>Total D01.020 Items:</b>		<b>5</b>							
<b>Total D01 Items:</b>		<b>6</b>							

CATEGORY F-A, Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.010.011	3-51A-0-2479A-H12B		3-51-20/sht.1	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1342-06
	Rigid Support	51A	O-ISIN4-101A-3.4				0.375		Vol.A. H.P.I. West Coolant Loop South Leg. Inspect with B10.020.013.
Class A									
F01.010.012	3-51A-0-2479A-H2B		3-51-20/sht.1	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1342-06
	Rigid Support	51A	O-ISIN4-101A-3.4				0.375		Vol.A. H.P.I. West Coolant Loop South Leg.
Class A									
F01.010.041	3-59-0-2478A-H2B		3-51-14/sht.3	QAL-14	VT-3	NA	1.500		Calculation No. OSC-1660-01. Inspect with
	Rigid Support	59	O-ISIN4-100A-3.1				0.250		B10.020.031.
Class A									
Total F01.010 Items: 3									
**** Category B, Multi-Directional ****									
F01.011.011	3-51A-0-2479A-H10A		3-53-10/sht.4	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1343-06 Vol.B. H.P.I. East
	Rigid Restraint	51A	O-ISIN4-101A-3.4				0.000		Coolant Loop.
Class A									
F01.011.012	3-51A-0-2479A-H12A		3-53-10/sht.3	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1343-06 Vol.B.
	Rigid Restraint	51A	O-ISIN4-101A-3.4				0.000		H.P.I. East Coolant Loop.
Class A									
F01.011.027	3-53A-0-2478A-H7B		3-53-08/sht.1	QAL-14	VT-3	NA	10.000		Calculation No. OSC-1338
	Rigid Restraint	53A	O-ISIN4-102A-3.3				0.437		Page No. 6(2)8. Inspect with B10.020.021
Class A									
F01.011.041	3-59-0-2478D-H6514		3-59-05/sht.1	QAL-14	VT-3	NA	1.500		Calculation No. OSC-1349-06.
	Rigid Restraint	59	O-ISIN4-100A-3.1				0.000		
Class A									
Total F01.011 Items: 4									

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
F01.012.003	3-50-0-2481A-H7		3-53-09/sht.1	QAL-14	VT-3 NA	2.500	Calculation No. OSC-1343-06 Vol.A.
	Mech Snubber	50	O-ISIN4-100A-3.2			0.500	
	Class A		O-3RB-35309-01				

**Total F01.012 Items: 1**

**CATEGORY F-A, Supports**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Category B, Multi-Directional ****</b>								
F01.021.041 Class B	3-51A-0-2439A-DE083 Rigid Restraint	51A	3-51-04/sh.t.1 O-ISIN4-101A-3.4	QAL-14	VT-3	NA	4.000 0.000	Calculation No. OSC-541.
F01.021.042 Class B	3-51A-1-0-2439A-SR6 Rigid Restraint	51A	3-51-04/sh.t.1 O-ISIN4-101A-3.4	QAL-14	VT-3	NA	4.000 1.000	Calculation No. OSC-541. Inspect with C03.020.041.
F01.021.043 Class B	3-51A-2-0-2439C-DE085 Rigid Restraint	51A	3-51-05/sh.t.1 O-ISIN4-101A-3.4	QAL-14	VT-3	NA	4.000 0.000	Calculation No. OSC-542.
F01.021.044 Class B	3-51A-2-0-2439C-H267 Rigid Restraint	51A	3-51-05/sh.t.1 O-ISIN4-101A-3.3	QAL-14	VT-3	NA	4.000 0.000	Calculation No. OSC-542.
F01.021.045 Class B	3-51A-2435D-DE006 Rigid Restraint	51A	3-51-05/sh.t.2 O-ISIN4-101A-3.2	QAL-14	VT-3	NA	2.500 0.000	Calculation No. OSC-542.
F01.021.046 Class B	3-51A-1-0-2439C-H293 Rigid Restraint	51A	3-51-05/sh.t.6 O-ISIN4-101A-3.4	QAL-14	VT-3	NA	4.000 0.000	Calculation No. OSC-542.
F01.021.047 Class B	3-51A-1-0-2439A-H315 Rigid Restraint	51A	3-51-05/sh.t.7 O-ISIN4-101A-3.4	QAL-14	VT-3	NA	4.000 0.000	Calculation No. OSC-542.
F01.021.048 Class B	3-51A-0-2478A-H8C Rigid Restraint	51A	3-51-14/sh.t.5 O-ISIN4-101A-3.1	QAL-14	VT-3	NA	2.500 0.000	Calculation No. OSC-1660-01.

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.021.050	3-51B-0-2436G-SB-1002		3-51-01/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-538 Part "A".
	Rigid Restraint	51B	O-ISIN4-101A-3.2					0.000	
Class B									
F01.021.051	3-51B-0-2436G-SB-2011		3-51-01/sht.1	QAL-14	VT-3	NA		2.500	Calculation No. OSC-538 Part "A".
	Rigid Restraint	51B	O-ISIN4-101A-3.2					0.000	
Class B									
F01.021.064	3-53B-5-0-2436D-R2		3-53-06/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-551. Inspect with C03.020.058.
	Rigid Restraint	53B	O-ISIN4-102A-3.2					1.000	
Class B									
F01.021.101	3-56-0-2438D-DE052		3-56-02/sht.3	QAL-14	VT-3	NA		8.000	Calculation No. OSC-563.
	Rigid Restraint	56	O-ISIN4-104A-3.1					0.000	
			O-3AB-35602-03						
Class B									
Total F01.021 Items:		12							
**** Category C, Thermal Movement ****									
F01.022.006	3-01A-0-2441-H1		3-01-01/sht.1	QAL-14	VT-3	NA		36.000	Calculation No. OSC-506.
	Constant Support	01A	O-ISIN4-122A-3.1					0.000	
Class B									
F01.022.022	3-51A-1-0-2444-SR14		3-51-05/sht.1	QAL-14	VT-3	NA		4.000	Calculation No. OSC-542.
	Hyd Snubber	51A	O-ISIN4-101A-3.3					0.000	
Class B									
F01.022.023	3-51B-3-0-2436G-H62		3-51-02/sht.3	QAL-14	VT-3	NA		4.000	Calculation No. OSC-539. Inspect with C03.020.044.
	Mech Snubber	51B	O-ISIN4-101A-3.2					0.125	
			O-3AB-35102-03						
Class B									
F01.022.025	3-51B-2444-H5535		3-51-01/sht.3	QAL-14	VT-3	NA		2.000	Calculation No. OSC-538 Part "A".
	Spring Hgr	51B	O-ISIN4-101A-3.1					0.000	
Class B									



CATEGORY F-A, Supports

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F01.022.031	3-53B-7-0-2437A-H85		3-51-02/sht.1	QAL-14	VT-3	NA	14.000		Calculation No. OSC-539. Inspect with C03.020.052.
	Spring Hgr	53B	O-ISIN4-102A-3.1				0.750		
Class B			O-3AB-35102-01						
F01.022.032	3-53B-2-0-2435D-SR46		3-51-02/sht.4	QAL-14	VT-3	NA	6.000		Calculation No. OSC-539.
	Mech Snubber	53B	O-ISIN4-101A-3.3				0.000		
Class B			O-3AB-35102-04						
F01.022.033	3-53B-0-2435B-DE013		3-53-01/sht.1	QAL-14	VT-3	NA	14.000		Calculation No. OSC-549.
	Mech Snubber	53B	O-ISIN4-102A-3.1				0.000		
Class B			O-3AB-35301-01						
F01.022.036	3-53B-5-0-2436D-H43		3-53-04/sht.2	QAL-14	VT-3	NA	10.000		Calculation No. OSC-551.
	Spring Hgr	53B	O-ISIN4-102A-3.2				0.000		
Class B									
F01.022.041	3-54A-3-0-2435B-H35		3-54-01/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-554. Inspect with C03.020.061.
	Spring Hgr	54A	O-ISIN4-103A-3.1				1.000		
Class B									
F01.022.042	3-54A-3-0-2437B-H39		3-54-01/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-554.
	Spring Hgr	54A	O-ISIN4-103A-3.1				1.000		
Class B									
Total F01.022 Items:		10							

CATEGORY F-A, Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category B, Multi-Directional ****									
F01.031.101	3-57-0-2480A-H4		3-57-01/sht.1	QAL-14	VT-3	NA		12.000	Calculation No. OSC-1351-06 Vol.C pg.104.1.
	Rigid Restraint	57	O-ISIN4-107A-3.1					0.500	
Class C									
F01.031.112	2-WL-100A-K0032		K-ISIN4-100A-2.1	QAL-14	VT-3	NA		8.000	Calc.# KC-0111,Page 30
	Rigid Restraint	WL						0.500	Problem # 0-WL-01 sht. 1 of 1. Keowee Unit 2.
Class C									
Total F01.031 Items: 2									
**** Category C, Thermal Movement ****									
F01.032.001	3-01A-4-0-2400A-H7		3-01A-04/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-510.
	Spring Hgr	01A	O-ISIN4-122A-3.4					0.125	
Class C									
F01.032.002	3-01A-4-0-2403C-H6		3-01A-04/sht.2	QAL-14	VT-3	NA		6.000	Calculation No. OSC-510.
	Spring Hgr	01A	O-ISIN4-122A-3.4					0.000	
Class C									
F01.032.011	3-07A-0-2401A-H15		3-07-03/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-522.
	Spring Hgr	07A	O-ISIN4-121A-3.8					1.000	
Class C									
F01.032.021	3-03-0-2401A-H48		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					0.322	Inspect with item number H04.001.011 and D01.020.022.
Class C									
F01.032.022	3-03-0-2401A-H49		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					1.500	Inspect with item number H04.001.009 and D01.020.023.
Class C									
F01.032.024	3-03A-1-0-2401A-SR101PO		3-03A-02/sht.3	QAL-14	VT-3	NA		6.000	Calculation No. OSC-513.
	Hyd Snubber	03A	O-ISIN4-121B-3.3					0.000	
Class C									
			O-3TB-303A02-03						

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.032.051	3-08-1-0-2400A-H1		3-08-01/sht.1	QAL-14	VT-3	NA		10.000	Calculation No. OSC-1808.
	Spring Hgr	08	O-ISIN4-122A-3.4					0.237	
Class C									
F01.032.061	3-13-7-0-2400A-H8		3-13-07/sht.1	QAL-14	VT-3	NA		12.000	Calculation No. OSC-523. Inspect with
	Spring Hgr	13	O-ISIN4-133A-3.2					0.500	D01.020.061.
Class C									
F01.032.062	3-13-7-0-2400B-DE002		3-13-07/sht.1	QAL-14	VT-3	NA		30.000	Calculation No. OSC-523.
	Mech Snubber	13	O-ISIN4-133A-3.2					0.000	
Class C									
F01.032.063	3-13-7-0-2400B-H14		3-13-07/sht.1	QAL-14	VT-3	NA		30.000	Calculation No. OSC-523.
	Spring Hgr	13	O-ISIN4-133A-3.2					1.000	
Class C									
F01.032.071	3-14B-1-0-2402A-H35		3-14-04/sht.3	QAL-14	VT-3	NA		18.000	Calculation No. OSC-532.
	Spring Hgr	14B	O-ISIN4-124B-3.1					0.000	
Class C									
F01.032.072	3-14B-6-0-2439A-H18		3-14-05/sht.2	QAL-14	VT-3	NA		14.000	Calculation No. OSC-531. Inspect with
	Spring Hgr	14B	O-ISIN4-124B-3.1					1.500	D01.020.073.
Class C									
F01.032.073	3-14B-0-2436D-H10		3-14B-03/sht.1	QAL-14	VT-3	NA		16.000	Calculation No. OSC-531.
	Spring Hgr	14B	O-ISIN4-124B-3.1					0.187	
Class C									
F01.032.081	3-56-5-0-2437A-H5		3-56-01/sht.1	QAL-14	VT-3	NA		8.000	Calculation No. OSC-567. Inspect with
	Spring Hgr	56	O-ISIN4-104A-3.1					0.500	D01.020.081.
Class C									
F01.032.082	3-56-1-0-2437A-SR116		3-56-02/sht.2	QAL-14	VT-3	NA		8.000	Calculation No. OSC-563.
	Hyd Snubber	56	O-ISIN4-104A-3.1					0.237	
Class C			O-3AB-35602-02						

CATEGORY F-A, Supports

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Class 3 Piping Supports

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F01.032.083	3-56-4-0-2438B-H51		3-56-02/sht.3	QAL-14	VT-3	NA	8.000		Calculation No. OSC-563.
	Spring Hgr	56	O-ISIN4-104A-3.1				0.125		
	Class C		O-3AB-35602-03						
F01.032.091	3-57-0-2481A-H15		3-57-01/sht.1	QAL-14	VT-3	NA	6.000		Calculation No. OSC-1351-06 Vol.C pg.104.1.
	Hyd Snubber	57	O-ISIN4-100A-3.2				1.000		
	Class C								
F01.032.092	3-57-0-2481A-H9		3-57-01/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-1351-06 Vol.C pg.104.1.
	Hyd Snubber	57	O-ISIN4-100A-3.2				0.216		
	Class C								
Total F01.032 Items:		18							

CATEGORY F-A, Supports

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Supports Other Than Piping Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Class 1, 2, and 3 ****									
F01.040.001	3-RPV-WR36	50	ISI-OCN3-001	QAL-14	VT-3	NA		0.000	Reactor Vessel Support Skirt. Reference manual OM 2201-2271.
Class A			O-ISIN4-100A-3.1					0.000	
F01.040.015	3-SF-PU-A	56	OM 201-1704	QAL-14	VT-3	NA		0.000	Spent Fuel Pump 3A Support Legs & Pad.
Class C			O-ISIN4-104A-3.1					0.000	
F01.040.016	3-SF-COOLER-A	56	OM 201-84	QAL-14	VT-3	NA		0.000	Spent Fuel Cooler 3A Support Legs.
Class C			O-ISIN4-104A-3.1					0.000	
F01.040.026	3-RCSR-FILTER	51A	OM 201-2135	QAL-14	VT-3	NA		0.000	Reactor Coolant Seal Return Filter Support. Component Support number is 3-51A-3-0-2436D-H79.
Class B			O-ISIN4-101A-3.1					0.000	
F01.040.028	3-ESVP-A		OM 212-014	QAL-14	VT-3	SS		0.000	Essential Siphon Vacuum Pump 3A Support.
Class C			O-ISIN4-130A-3.1					0.000	
F01.040.034	3-50-RCPM-3B1-SS1	50	0-1066A	QAL-14	VT-3	NA		6.000	Calclaton No. OSC-1011-01-0003, Reactor Coolant Pump Motor Snubbers. Reference PIP O-096-1575.
	Mech Snubber		O-ISIN4-100A-3.1					0.000	
Class A			O-ISIN4-100A-3.3						
Total F01.040 Items:		6							
Total F01 Items:		56							

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G01.001.001	3-RCP-3A1		OM-201D-038	NDE-900	UT	CS		72.000		Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.001A3-RCP-3A1			OM-201D-038	NDE-25	MT	CS		72.000		Reactor Coolant Pump 3A1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.002	3-RCP-3A2		OM-201D-038	NDE-900	UT	CS		72.000		Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.002A3-RCP-3A2			OM-201D-038	NDE-25	MT	CS		72.000		Reactor Coolant Pump 3A2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.003	3-RCP-3B1		OM-201D-038	NDE-900	UT	CS		72.000		Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.003A3-RCP-3B1			OM-201D-038	NDE-25	MT	CS		72.000		Reactor Coolant Pump 3B1 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.004	3-RCP-3B2		OM-201D-038	NDE-900	UT	CS		72.000		Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										
G01.001.004A3-RCP-3B2			OM-201D-038	NDE-25	MT	CS		72.000		Reactor Coolant Pump 3B2 Flywheel. Reference Section 7 Paragraph 7.1.1 of the ISI Plan - Volume 1.
		50	O-ISIN4-100A-3.1					9.500		
Class A										

Total G01.001 Items: 8

Total G01 Items: 8

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G02.001.005A3-PDA1-46			ISI-OCN3-011	NDE-690	UT	CS	3.500		40410	Reference Section 7 of the ISI Plan, Volume 1. 3A1 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				2.500		40350	
G02.001.005B3-PDA2-46			ISI-OCN3-012	NDE-690	UT	CS	3.500		40410	Reference Section 7 of the ISI Plan, Volume 1. 3A2 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				2.500		40350	
G02.001.005C3-PDB1-46			ISI-OCN3-013	NDE-690	UT	CS	3.500		40410	Reference Section 7 of the ISI Plan, Volume 1. 3B1 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				2.500		40350	
G02.001.005D3-PDB2-46			ISI-OCN3-014	NDE-690	UT	CS	3.500		40410	Reference Section 7 of the ISI Plan, Volume 1. 3B2 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				2.500		40350	
G02.001.006A3-PDA1-11			ISI-OCN3-011	NDE-995	UT	SS-Inconel	3.500		40416	Reference Section 7 of the ISI Plan, Volume 1. 3A1 Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750		Component	
										Make Up Nozzle, PC 46 to Safe End, PC 47

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G02.001.006B3-PDA2-11			ISI-OCN3-012	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3A2
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.006C3-PDB1-11			ISI-OCN3-013	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3B1
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.006D3-PDB2-11			ISI-OCN3-014	NDE-995	UT	SS-Inconel	3.500	40416	Reference Section 7 of the ISI Plan, Volume 1. 3B2
Class A	51A		O-ISIN4-100A-3.1 OM-201-597	PDI-UT-10			0.750	Component	HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. This item is to be examined by both procedures NDE-995 and PDI-UT-10.
G02.001.007A3-PDA1-47			ISI-OCN3-011	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up Nozzle 3A1.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.007B3-PDA2-47			ISI-OCN3-012	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up Nozzle 3A2.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to



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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									scheduling the fourth interval.
G02.001.007C3-PDB1-47			ISI-OCN3-013	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining HPI Nozzle 3B1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1				0.750		
			OM-201-597						
G02.001.007D3-PDB2-47			ISI-OCN3-014	NDE-995	UT	SS	3.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining HPI Nozzle 3B2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1				0.750		
			OM-201-597						
G02.001.008A3RC-211-64			3RC-211	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up Nozzle 3A1. Perform UT on weld 3RC-211-64 and adjoining base metal out to weld 3RC-211-54 (at valve 3HP-127). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.027 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1				0.375		
			OM-201-597		Pipe Safe End PC 47 to Pipe				
G02.001.008B3RC-210-24A			3RC-210	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up Nozzle 3A2. Perform UT on weld 3RC-210-24A and adjoining base metal out to weld 3RC-210-31 (at valve 3HP-126). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check
Class A	51A		O-ISIN4-100A-3.1				0.375		
			OM-201-597		Safe End PC 47 to Pipe				

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
										with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.0024 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.008C3RC-212-52			3RC-212	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-52 and adjoining base metal out to weld 3RC-212-45 (at valve 3HP-153). There is a circumferential weld located between weld 3RC-212-52 and 3RC-212-45. This weld (3RC-212-43C) will be documented as item number G02.001.009B. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. 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.
Class A	51A		O-ISIN4-100A-3.1					0.375		
			OM-201-597			Safe End PC 47 to Pipe				
G02.001.008D3RC-213-26			3RC-213	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. Perform UT on weld 3RC-213-26 and adjoining base metal out to weld 3RC-213-27 (at valve 3HP-152). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.005 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1					0.375		
			OM-201-597			Safe End PC 47 to Pipe				
G02.001.009B3RC-212-43C			3RC-212	NDE-995	UT	SS		2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-43C. Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be
Class A	51A		O-ISIN4-100A-3.1					0.375		
			OM-201-597			Pipe to Pipe				

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
										changed. Check with Engineering prior to scheduling the fourth interval. 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.
G02.001.010A3RC-211-54			3RC-211	NDE-995	UT	SS	2.500		Component	Reference Section 7 of the ISI Plan, Volume 1. Make Up Nozzle 3A1. Perform UT on weld 3RC-211-54 (at valve 3HP-127). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.026 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Pipe to Valve 3HP-127		0.375			
G02.001.010B3RC-210-31			3RC-210	NDE-995	UT	SS	2.500		Component	Reference Section 7 of the ISI Plan, Volume 1. Make Up Nozzle 3A2. Perform UT on weld 3RC-210-31 (at valve 3HP-126). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.025 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Pipe to Valve 3HP-126		0.375			
G02.001.010C3RC-212-45			3RC-212	NDE-995	UT	SS	2.500		Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. Perform UT on weld 3RC-212-45 (at valve 3HP-153). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Inspect this weld at the same time item number G04.001.001 is inspected.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Pipe to Valve 3HP-153		0.375			

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.010D3RC-213-27			3RC-213	NDE-995	UT	SS	2.500	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. Perform UT on weld 3RC-213-27 (at valve 3HP-152). Perform UT examination during outages 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. 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.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597		Pipe to Valve 3HP-152		0.375		
G02.001.011A3A1-THERM SLEEVE			ISI OCN3-011	NDE-105	RT	SS	3.500		Reference Section 7 of the ISI Plan, Volume 1. Make UP Nozzle 3A1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		
G02.001.011B3A2-THERM SLEEVE			ISI OCN3-012	NDE-105	RT	SS	3.500		Reference Section 7 of the ISI Plan, Volume 1. Make UP Nozzle 3A2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		
G02.001.011C3B1-THERM SLEEVE			ISI OCN3-013	NDE-105	RT	SS	3.500		Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B1. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A	51A		O-ISIN4-100A-3.1 OM-201-597				0.750		

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.011D3B2-THERM SLEEVE			ISI OCN3-014	NDE-105	RT	SS	3.500		Reference Section 7 of the ISI Plan, Volume 1. HPI Nozzle 3B2. 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 17, 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
		51A	O-ISIN4-100A-3.1				0.750		
Class A			OM-201-597						

Total G02.001 Items:	25
Total G02 Items:	25

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G03.001.002	3PSL-133		3-50-19	NDE-600	UT	SS		10.750	40399	Examine 3" band on Elbow PC. 80 to PC.83-Data Point #133 (Calc#OSC 1522).Reference Section7 Paragraph 7.1.3 of the ISI Plan. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class A		50	ISI-OCN3-015	See Com				1.000	See Com	
			O-ISIN4-100A-3.2			Elbow (Base Metal) to N/A				
G03.001.003	3PSL-142		3-50-19	NDE-600	UT	SS		10.750	40399	Examine 3" band on Elbow PC. 80 to PC.82-Data Point #142 (Calc#OSC 1522).Reference Section7 Paragraph 7.1.3 of the ISI Plan. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
Class A		50	ISI-OCN3-015	See Com				1.000	See Com	
			O-ISIN4-100A-3.2			Elbow (Base Metal) to N/A				
Total G03.001 Items:		2								
Total G03 Items:		2								

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G04.001.001 Class A	3RC-212-45 Circumferential	51A	3RC-212 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049 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.
G04.001.002 Class A	3RC-212-43C Circumferential	51A	3RC-212 O-ISIN4-100A-3.1	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-43C until iso 3-51A -61 was redrawn. Inspect this weld at the same time item number G02.001.009B is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G04.001.003 Class A	3RC-212-52 Circumferential	51A	3RC-212 O-ISIN4-100A-3.1	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-44A until iso 3-51A -61 was redrawn. 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.
G04.001.004 Class A	3RC-213-27 Circumferential	51A	3HP-213 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049 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.

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G04.001.005	3RC-213-26		3RC-213	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-26 until iso 3-51A -62 was revised.(See rev. 8) Inspect this weld at the same time item number 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.
Class A	Circumferential	51A	O-ISIN4-100A-3.1		Pipe to Nozzle Nozzle on 3B2 Disch Line		0.375		
G04.001.006	3HP-242-39		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-61-39 until iso 3-51A -61 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.375		
G04.001.007	3HP-242-40		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See Addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.375		
G04.001.008	3HP-242-46		3HP-242	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See Addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-488		0.375		
G04.001.009	3HP-243-19A		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-19A until iso 3-51A -62 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Elbow		0.375		
G04.001.010	3HP-243-23		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Pipe to Valve 3HP-489		0.375		
G04.001.011	3HP-243-22		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld &1"of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. See addenda ONS3-049
Class A	Circumferential	51A	O-ISIN4-101A-3.4		Elbow to Pipe		0.375		



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G04.001.012	3RC-210-32		3RC-210	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375		
Class A					Valve 3HP-126 to Valve 3HP-486				
G04.001.013	3RC-211-47		3RC-211	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375		
Class A					Valve 3HP-487 to Valve 3HP-127				
G04.001.014	3RC-212-46		3RC-212	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
	Circumferential	51A	O-ISIN4-101A-3.4	NDE-12			0.375		
Class A					Valve 3HP-153 to Valve 3HP-488				
G04.001.015	3RC-213-28		3RC-213	NDE-995	UT	SS	2.500		Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
	Circumferential	51A	O-ISIN4-100A-3.1	NDE-12			0.375		
Class A					Valve 3HP-152 to Valve 3HP-489				

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS item number.
G04.001.016 Class A	3HP-240-19 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Elbow	Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-64-19 until iso 3-51A -64 was redrawn.
G04.001.017 Class A	3HP-240-21 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Elbow to Pipe	Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-64-21 until iso 3-51A -64 was redrawn.
G04.001.018 Class A	3HP-240-32 Circumferential	51A	3HP-240 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Valve 3HP-486	Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan.
G04.001.019 Class A	3HP-241-32 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Elbow	Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-63-32 until iso 3-51A -63 was redrawn.
G04.001.020 Class A	3HP-241-33 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Elbow to Pipe	Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-63-33 until iso 3-51A -63 was redrawn.
G04.001.021 Class A	3HP-241-48 Circumferential	51A	3HP-241 O-ISIN4-101A-3.4	NDE-995	UT	SS	2.500 0.375	Pipe to Pipe	Inspect 100% of weld &1"of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Weld 3HP-241-33A was deleted and weld 3HP-241-48 replaced it.

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G04.001.022	3HP-241-43		3HP-241	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.375	Valve 3HP-487 to Pipe	
G04.001.023	3HP-243-21		3HP-243	NDE-995	UT	SS	2.500		Inspect 100% of weld & 1" of Base Metal (axial & circ.). Reference Section 7 Paragraph 7.1.4 of the ISI Plan. This weld was listed previously as 3-51A-62-21 until iso 3-51A -62 was redrawn.
Class A	Circumferential	51A	O-ISIN4-101A-3.4				0.375	Pipe to Elbow	
G04.001.024	3RC-210-24A		3RC-210	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld 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		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Safe End PC 47 to Pipe	
G04.001.025	3RC-210-31		3RC-210	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. 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		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe to Valve 3HP-126	
G04.001.026	3RC-211-54		3RC-211	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld at the same time item number G02.001.010A is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe to Valve 3HP-127	
G04.001.027	3RC-211-64		3RC-211	NDE-995	UT	SS	2.500	Component	Inspect 100% of weld & 1" of Base Metal(axial & circ.).Reference Section 7 Paragraph 7.1.4 of the ISI Plan. Inspect this weld at the same time item number G02.001.008A is inspected.
Class A		51A	O-ISIN4-100A-3.1 OM-201-597				0.375	Pipe Safe End PC 47 to Pipe	

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Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.

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Total G04.001 Items:	27
Total G04 Items:	27

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G11.001.001	3-RPV-HEAD-PEN		O-ISIN4-100A-1.1	TBD	UT	SS	0.000	TBD	NRC Order EA-03-009 requires ultrasonic testing of each RPV head penetration nozzle. The area to be examined includes the nozzle base material from two inches above the J-groove weld and continues to the bottom of the nozzle. There should be an assessment by ultrasonic testing to determine if leakage has occurred into (or a leak path exist in) the interference fit zone. For additional information, contact J.M. Shuping of the Metallurgy, Lab Services Group.
Class A		50	OM-201-2271				0.000		

**Total G11.001 Items: 1**

1

**Total G11 Items:**

1

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H01.001.001	3PZR-WP63-1		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; W-X Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
H01.001.002	3PZR-WP63-2		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; Y-Z Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
H01.001.003	3PZR-WP63-3		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; Z-W Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
H01.001.004	3PZR-WP63-4		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; W-X Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
H01.001.005	3PZR-WP63-5		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; Y-Z Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
H01.001.006	3PZR-WP63-6		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; Z-W Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
H01.001.007	3PZR-WP63-7		ISI-OCN3-002	NDE-35	PT	CS-Inconel	1.000		Pressurizer Sensing and Sampling Nozzles; Z-W Quad.
	Circumferential	50					1.185		
Class A	Dissimilar				Sensing Nozzle to Safe- end				
Total H01.001 Items:		7							
Total H01 Items:		7							

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H02.001.008	3-PIA2-9		ISI-OCN3-008	NDE-35	PT	CS-Inconel	8.750		Reference Section 7 Paragraph 7.1.10 of the ISI
	Branch	50	O-ISIN4-100A-3.1				2.250		Plan - Volume1 The diameter of hole that penetrates
Class A					Pipe to				through the nozzle into the hot leg = .613
	Dissimilar				Nozzle RTE Nozzle				
H02.001.009	3-PIB1-11		ISI-OCN3-009	NDE-35	PT	CS-Inconel	8.750		Reference Section 7 Paragraph 7.1.10 of the ISI
	Branch	50	O-ISIN4-100A-3.1				2.250		Plan - Volume1 The diameter of hole that penetrates
Class A					Pipe to				through the nozzle into the hot leg = .613
	Dissimilar				RTE Nozzle				
Total H02.001 Items:		2							
Total H02 Items:		2							

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H03.001.001	3-03-31-16A		3-03-31	NDE-600	UT	CS		24.000	Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
Class B	Circumferential	03	O-ISIN4-121B-3.3	NDE-940				1.218	
					Valve 3FDW-37 to Pipe				
H03.001.002	3-03-31-15A		3-03-31	NDE-600	UT	CS		24.000	Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
Class C	Circumferential	03	O-ISIN4-121B-3.3	NDE-940				1.218	
					Elbow to Pipe 3FDW-37				
H03.001.003	3-03-31-15G		3-03-31	NDE-600	UT	CS		24.000	Weld 3-03-31-15A is a Elbow to Valve weld located on iso 3-03-31.Weld 3-03-31-15G is a Grinnell Subassembly (pipe to elbow) weld located on the opposite end of the elbow from weld 3-03-31-15A. Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
Class C	Circumferential	03	O-ISIN4-121B-3.3	NDE-940				1.218	
					Pipe to Elbow				
Total H03.001 Items:		3							
Total H03 Items:		3							



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H04.001.009 Class C	3-03-0-2401A-H49 Spring Hgr	03	3-03-01/sht.1 O-ISIN4-121B-3.3	QAL-14	VT-3	NA		24.000 1.500	Calculation No. OSC-512. Inspect with item number F01.032.022 and H04.001.009A.
H04.001.009A Class C	3-03-0-2401A-H49 Spring Hgr	03	3-03-01/sht.1 O-ISIN4-121B-3.3	NDE-35	PT	NA		24.000 1.500	Calculation No. OSC-512. Inspect along with item number H04.001.009. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.011 Class C	3-03-0-2401A-H48 Spring Hgr	03	3-03-01/sht.1 O-ISIN4-121B-3.3	QAL-14	VT-3	NA		24.000 0.322	Calculation No. OSC-512. Inspect with item number F01.032.021 and H04.001.011A..
H04.001.011A Class C	3-03-0-2401A-H48 Spring Hgr	03	3-03-01/sht.1 O-ISIN4-121B-3.3	NDE-35	PT	NA		24.000 0.322	Calculation No. OSC-512. Inspect along with item number H04.001.011. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.018 Class C	3-03-0-2401A-H60 Rigid Support	03	3-03-01/sht.1 O-ISIN4-121B-3.3	QAL-14	VT-3	NA		24.000 0.000	Calculation No. OSC-512.
H04.001.019 Class C	3-03-0-2401A-SR3 Hyd Snubber	03	3-03-01/sht.1 O-ISIN4-121B-3.3	QAL-14	VT-3	NA		24.000 0.406	Calculation No. OSC-512. Inspect with item number H04.001.019A.
H04.001.019A Class C	3-03-0-2401A-SR3 Hyd Snubber	03	3-03-01/sht.1 O-ISIN4-121B-3.3	NDE-35	PT	NA		24.000 0.406	Calculation No. OSC-512. Inspect along with item number H04.001.019. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid

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Inservice Inspection Database Management System  
Oconee 3

Inservice Inspection Plan for Interval 4 Outage 6

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									penetrant examinations.
H04.001.020	3-03-0-2401A-H59		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					1.500	Inspect with item H04.001.020A.
Class C									
H04.001.020A	3-03-0-2401A-H59		3-03-01/sht.1	NDE-35	PT	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					1.500	Inspect along with item number H04.001.020.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use
									of procedure NDE-25) may be performed on carbon
									steel material in lieu of or in conjunction with liquid
									penetrant examinations.
H04.001.021	3-03-0-2401A-H58		3-03-01/sht.1	QAL-14	VT-3	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					0.322	Inspect with item number H04.001.021A.
Class C									
H04.001.021A	3-03-0-2401A-H58		3-03-01/sht.1	NDE-35	PT	NA		24.000	Calculation No. OSC-512.
	Spring Hgr	03	O-ISIN4-121B-3.3					0.322	Inspect along with item number H04.001.021.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use
									of procedure NDE-25) may be performed on carbon
									steel material in lieu of or in conjunction with liquid
									penetrant examinations.
Total H04.001 Items:		11							
Total H04 Items:		11							

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**Oconee Unit 3**  
**and**  
**Keowee Units 1 & 2**

**Inservice Inspection Reference Drawings**

**Section 2**

**Revision 0**

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## ISI NDE Boundary Drawings – Oconee Unit 3 and Keowee Units 1 & 2

The following is a list of ISI NDE Boundary Drawings used as a reference for Oconee Unit 3 and Keowee Units 1 & 2 for the Fourth Interval Inservice Inspection Plan. These drawings are color-coded in accordance with Section 2.0 of the General Requirements.

These ISI NDE Boundary Drawings are stored electronically and can be found in the Nuclear Electronic Document Library (NEDL). ISI NDE Boundary Drawings are revised in accordance with Procedure QA-513, Appendix A, (QA-513 is located in the ASME Section XI Program Functional Area Manual)

<u>System</u>	<u>Drawing No.</u>	<u>Revision</u> <sup>1</sup>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>
Reactor Coolant	O-ISIN4-100A-3.1	0	X	X	
Reactor Coolant (Pressurizer)	O-ISIN4-100A-3.2	0	X	X	X
Reactor Coolant	O-ISIN4-100A-3.3	0	X		X
High Pressure Injection (Letdown Section)	O-ISIN4-101A-3.1	0	X	X	X
High Pressure Injection (Storage Section)	O-ISIN4-101A-3.2	0		X	X
High Pressure Injection (Charging Section)	O-ISIN4-101A-3.3	0		X	
High Pressure Injection (Charging Section)	O-ISIN4-101A-3.4	0	X	X	X
High Pressure Injection System (SSF Portion)	O-ISIN4-101A-3.5	0		X	

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<sup>1</sup> The ISI NDE Boundary Drawings revision number provides a baseline for the development of the ISI Plan. As such, the revision numbers listed will not be updated as each ISI NDE Boundary Drawings is revised.

<u>System</u>	<u>Drawing No.</u>	<u>Revision<sup>1</sup></u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>
Low Pressure Injection System Borated Water Supply & LPI Pump Suction	O-ISIN4-102A-3.1	0	X	X	X
Low Pressure Injection Pump (Discharge)	O-ISIN4-102A-3.2	0	X	X	
Low Pressure Injection System(Core Flood)	O-ISIN4-102A-3.3	0	X	X	
Reactor Building Spray	O-ISIN4-103A-3.1	0		X	
Spent Fuel Cooling	O-ISIN4-104A-3.1	0		X	X
Spent Fuel Cooling (Purification Loop)	O-ISIN4-104A-3.2	0			X
Coolant Treatment System Concentrated Boric Acid Storage Tank	O-ISIN4-106A-3.2	0			X
Demineralized Water System(Reactor Building Portion)	O-ISIN4-106E-3.1	0		X	
Coolant Storage System(Quench Tank Portion)	O-ISIN4-107A-3.1	0		X	
Coolant Storage System (Component Drain Pump)	O-ISIN4-107A-3.2	0		X	
Liquid Waste Disposal System(Reactor Building Normal Sump)	O-ISIN4-107B-3.1	0		X	
Liquid Waste Disposal System(D2 Drain Heater to High Activity Waste Tank)	O-ISIN4-107D-3.2	0		X	
Purification Demineralizers	O-ISIN4-109A-3.1	0		X	X
Chemical Addition System (Primary Sample Hood)	O-ISIN4-110A-3.1	0	X	X	
Chemical Addition System (Post Accident Gas System)	O-ISIN4-110A-3.3	0		X	X

<u>System</u>	<u>Drawing No.</u>	<u>Revision<sup>1</sup></u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>
Chemical Addition System (Post Accident Liquid Sampling)	O-ISIN4-110A-3.4	0		X	X
Reactor Building Purge System	O-ISIN4-116A-3.1	0		X	
Penetration Room Ventilation System	O-ISIN4-116B-3.1	0			X
Hydrogen Purge System	O-ISIN4-116C-3.1	0		X	
Auxiliary Building Ventilation System	O-ISIN4-116G-1.4	1			X
Condensate System (Main Condenser "1C")	O-ISIN4-121A-3.3	0			X
Condensate System (Upper Surge Tanks 1A & 1B Upper Surge Tank Dome & Condensate Storage Tank)	O-ISIN4-121A-3.7	0			X
Condensate Make-Up & Emergency FDW Pump Suction	O-ISIN4-121A-1.8	2			X
Condensate Make-Up & Emergency FDW Pump Suction	O-ISIN4-121A-3.8	0			X
Feedwater (Final Feedwater)	O-ISIN4-121B-3.3	0		X	X
Feedwater System (Steam Generator Drain & Recirculation System)	O-ISIN4-121B-3.5	0		X	X
Emergency Feedwater	O-ISIN4-121D-1.2	1		X	X
Emergency Feedwater	O-ISIN4-121D-3.1	2		X	X
Main Steam (Headers 1A & 1B)	O-ISIN4-122A-3.1	0		X	X
Main Steam (Turbine Bypass)	O-ISIN4-122A-3.2	0		X	
Main Steam (Main FDW Pump Turbines 1A & 1B HP & LP Steam Supply & Exhaust)	O-ISIN4-122A-3.3	0		X	

<u>System</u>	<u>Drawing No.</u>	<u>Revision<sup>1</sup></u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>
Main Steam (Main FDW Pump Turbines 1A & 1B HP & LP Supply & Exhaust)	O-ISIN4-122A-3.4	0		X	X
HP & LP Turbine Exhaust & Steam Seal (HP Turbine Inlet, Steam Seal Header & Feedwater Pump Turbine Steam Seals)	O-ISIN4-122B-3.1	0		X	
Low Pressure Service Water System (Turbine Bldg. Services)	O-ISIN4-124A-3.1	0			X
Low Pressure Service Water System (Turbine Bldg. Services)	O-ISIN4-124A-3.3	0			X
Low Pressure Service Water System (Auxiliary Building Services)	O-ISIN4-124B-3.1	0			X
Low Pressure Service Water System (Reactor Building Cooling Units)	O-ISIN4-124B-3.2	0		X	X
Low Pressure Service Water System R. C. Pump Motor Cooling & R. B. Fire Protection	O-ISIN4-124B-3.4	0		X	X
High Pressure Service Water System (Turbine Building)	O-ISIN4-124C-3.2	0			X
Nitrogen Purge and Blanket System(Reactor Building Portion)	O-ISIN4-127B-3.2	0		X	
Siphon Seal Water System	O-ISIN4-129A-3.2	0			X
Essential Siphon Vacuum	O-ISIN4-130A-3.1	0			X
Condenser Circulation Water System (SSF Aux. Service)	O-ISIN4-133A-2.5	0			X
Condenser Circulation Water System (CCW Intake Pumps Discharge)	O-ISIN4-133A-3.1	0			X

<u>System</u>	<u>Drawing No.</u>	<u>Revision<sup>1</sup></u>	<u>Class 1</u>	X
Condenser Circulation Water System (Normal Intake & Discharge)	O-ISIN4-133A-3.2	0		X
Condenser Circulation Water System (Underwater & Turbine Room Sump Pumps)	O-ISIN4-133A-3.4	0		X
Lube Oil System (Emergency Feedwater Pump Turbine Driven)	O-ISIN4-135B-3.2	0		X
Breathing Air System	O-ISIN4-137A-3.3	0	X	
Instrument Air System	O-ISIN4-137B-1.2	1	X	
Component Cooling (Reactor Building Heat Exchangers)	O-ISIN4-144A-3.2	0	X	X
Component Cooling System (Control Rod Drive Service Structure and Filters)	O-ISIN4-144A-3.3	0	X	
Turbine Generator Cooling Water System	K-ISIN4-100A-1.1	0		X
Turbine Generator Cooling Water System	K-ISIN4-100A-2.1	0		X
Turbine Guide Bearing Oil System	K-ISIN4-101A-1.1	0		X
Turbine Guide Bearing Oil System	K-ISIN4-101A-2.1	0		X
Turbine Sump Pump System	K-ISIN4-102A-1.1	0		X
Turbine Sump Pump System	K-ISIN4-102A-2.1	0		X
Governor Air System	K-ISIN4-104A-1.1	0		X
Governor Air System	K-ISIN4-104A-2.1	0		X



System	Drawing No.	Revision <sup>1</sup>	Class 1	X
Governor Oil System	K-ISIN4-105A-1.1	0		X
Governor Oil System	K-ISIN4-105A-2.1	0		X
Air Circuit Breaker System	K-ISIN4-107A-1.1	0		X

<sup>1</sup> The ISI NDE Boundary Drawings revision number provides a baseline for the development of the ISI Plan. As such, the revision numbers listed will not be updated as each ISI NDE Boundary Drawings is revised.

### Weld Identification Drawings - Unit 3

The following weld identification drawings have been prepared for Oconee Unit 3:

<u>Drawing Number</u>	<u>Title</u>	<u>Revision</u>
ISI-OCN3-001	Reactor Vessel Weld Outline	0
ISI-OCN3-002	Pressurizer Weld Outline	1
ISI-OCN3-003	Steam Generator A Weld Outline	1
ISI-OCN3-004	Steam Generator B Weld Outline	1
ISI-OCN3-005	Steam Generator 1A Hot Leg to Reactor Vessel	0
ISI-OCN3-006	Steam Generator 1B Hot Leg to Reactor Vessel	1
ISI-OCN3-007	Pump 1A1 Suction Piping	0
ISI-OCN3-008	Pump 1A2 Suction Piping	0
ISI-OCN3-009	Pump 1B1 Suction Piping	0
ISI-OCN3-010	Pump 1B2 Suction Piping	0
ISI-OCN3-011	Pump 1A1 Discharge Piping	1
ISI-OCN3-012	Pump 1A2 Discharge Piping	1
ISI-OCN3-013	Pump 1B1 Discharge Piping	0
ISI-OCN3-014	Pump 1B2 Discharge Piping	0
ISI-OCN3-015	Pressurizer Spray Piping	1
ISI-OCN3-016	Pressurizer Spray Piping	1