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July 24, 2000

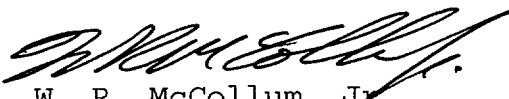
U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Subject: Duke Energy Company  
Oconee Nuclear Station, Unit 3  
Docket No. 50-287  
Unit 3 EOC 18 Refueling Outage  
Inservice Inspection Report  
Third Ten-Year Inservice Inspection Interval

Please find attached a copy of the Inservice Inspection Report for Oconee Unit 3 End of Cycle 18 Refueling Outage. This report is submitted pursuant to Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition, with no addenda, Article IWA 6230.

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

Very truly yours,



W. R. McCollum, Jr.  
Site Vice-President

Attachment

A047

U. S. Nuclear Regulatory Commission  
July 24, 2000  
Page 2

xc wo/attachment: Mr. Luis A. Reyes  
Administrator, Region II  
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Division of Radioactive Waste Management  
Bureau of Land and Waste Management  
SC Dept. of Health & Environmental Control  
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Columbia, SC 29201

# **INSERVICE INSPECTION REPORT**

**DUKE POWER COMPANY  
OCONEE NUCLEAR STATION  
UNIT 3  
EIGHTEENTH REFUELING  
OUTAGE**



*A Duke Energy Company*

# INSERVICE INSPECTION REPORT

## UNIT 3 OCONEE 2000 REFUELING OUTAGE EOC18 (OUTAGE 4)

Location: 7800 Rochester Highway, Seneca, South Carolina 29672

NRC Docket No. 50-287

Commercial Service Date: December 16, 1974

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

Revision 0

Prepared By:

Larry Co Keith

Date

6-27-00

Reviewed By:

R. C. Rame

Date

6/27/00

Approved By:

R. Kevin Rhyme

Date

6/27/00



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

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006  
 (Name and Address of Owner)
2. Plant: Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29672  
 (Name and Address of Plant)
3. Plant Unit: 3      4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: 12/16/74      6. National Board Number for Unit N/A
7. Components Inspected:

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

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

### FORM NIS-1 (Back)

8. Examination Dates December 20, 1998 to May 22, 2000
9. Inspection Period Identification: Second Period of the Third Interval
10. Inspection Interval Identification: Third Inservice Inspection Interval
11. Applicable Edition of Section XI 1989 Addenda None
12. Date/Revision of Inspection Plan: February 2, 2000 / Revision 5
13. Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Sections 3.0 and 4.0
14. Abstract of Results of Examination and Tests. See Section 5.0
15. Abstract of Corrective Measures. See Section 8.0

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

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

Date 6/27 ~~10~~ 2000 Signed Duke Energy Corp. By R. Kevin Rhysse  
Owner

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NC employed by \*The HSBI&I Co. of have inspected the components described in this Owner's Report during the period 12-20-98 to 5-22-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

MB Chapman Commissions NC 914  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-7 ~~10~~ 2000

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

## ***DISTRIBUTION LIST***

Duke Energy Corporation Quality  
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and Insurance Company (ANII)  
C/o Clayton T. Smith  
Oconee Nuclear Station

D. E. LaBarge  
Project Manager  
Office of NRR  
USNRC  
Washington, DC 20555

Laura Burba  
Nuclear GO  
Regulatory & Industrial Affairs  
Mail Code= EC050

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## **1.0 General Information**

This report describes the Inservice Inspection of Duke Energy Corporation's Oconee Nuclear Station, Unit 3, during the 2000 Refueling Outage (also referred to as EOC18 (Outage 4). This is the second outage in the second inspection period of the third ten year interval.

Included in this report are the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination and corrective action taken when unacceptable conditions were found. In addition, there is a section included for repairs and replacements required since December 20, 1998.

### **1.1 Identification Numbers**

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Babcock & Wilcox	620-0009-51-52	N/A	N-125
Steam Generator A	Babcock & Wilcox	620-0009-55-1	N/A	N-127
Steam Generator B	Babcock & Wilcox	620-0009-55	N/A	N-128
Pressurizer	Babcock & Wilcox	620-0009-59	N/A	N-126
Main Steam System	Duke Energy	NA	NA	NA
Auxiliary Steam System	Duke Energy	NA	NA	NA
Feedwater System	Duke Energy	NA	NA	NA
Emergency Feedwater System	Duke Energy	NA	NA	NA
Steam Generator Flush System	Duke Energy	NA	NA	NA
Condensate System	Duke Energy	NA	NA	NA
Vents and Exhaust System	Duke Energy	NA	NA	NA
Condenser Circulating Water	Duke Energy	NA	NA	NA
High Pressure Service Water System	Duke Energy	NA	NA	NA

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

## 1.2 **Authorized Nuclear Inservice Inspector(s)**

Name: M. B. Chapman/Clayton T. Smith

Employer: The Hartford Steam Boiler Inspection & Insurance Company

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

## 2.0 Summary of Inservice Inspections

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during EOC18 (Outage 4) at Oconee Nuclear Station, Unit 3.

### 2.1 *Class 1 Inspection*

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

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

**Examination Category B-B****Pressure Retaining Welds in Vessels Other than Reactor Vessels**

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



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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B03.090	Nozzle-to-Vessel Welds	0
B03.100	Nozzle Inside Radius Section	0
	<b>Pressurizer</b>	
B03.110	Nozzle-to-Vessel Welds	0
B03.120	Nozzle Inside Radius Section	0
	<b>Steam Generators (Primary Side)</b>	
B03.130	Nozzle-to-Vessel Welds	0
B03.140	Nozzle Inside Radius Section	0
	<b>Heat Exchangers (Primary Side)</b>	
B03.150	Nozzle-to-Vessel Welds	0
B03.160	Nozzle Inside Radius Section	Request for Relief ONS-009
<b>TOTALS</b>		0

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

REFERENCE SECTION 11.0 OF THIS REPORT

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

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

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

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Heat Exchangers</b>	
B05.100	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	NA
B05.110	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.120	Nozzle-to-Safe End Socket Welds	NA
	<b>Piping</b>	
B05.130	Nominal Pipe Size 4" or Larger Dissimilar Metal Butt Welds	2
B05.140	Nominal Pipe Size Less Than 4" Dissimilar Metal Butt Welds	0
B05.150	Dissimilar Metal Socket Welds	NA
<b>TOTALS</b>		2

**Examination Category B-G-1****Pressure Retaining Bolting, Greater Than 2" in Diameter**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Reactor Vessel</b>	
B06.010	Closure Head Nuts	15
B06.020	Closure Studs, (in place)	NA
B06.030	Closure Studs, (when removed)	15
B06.040	Threads in Flange	0
B06.050	Closure Washers, Bushings	1
	<b>Pressurizer</b>	
B06.060	Bolts and Studs	0
B06.070	Flange Surface, (when connection disassembled)	0
B06.080	Nuts , Bushings and Washers	0
	<b>Steam Generators</b>	
B06.090	Bolts and Studs	NA
B06.100	Flange Surface, (when connection disassembled)	NA
B06.110	Nuts , Bushings and Washers	NA
	<b>Heat Exchangers</b>	
B06.120	Bolts and Studs	NA
B06.130	Flange Surface, (when connection disassembled)	NA
B06.140	Nuts , Bushings and Washers	NA

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

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Piping</b>	
B06.150	Bolts and Studs	NA
B06.160	Flange Surface, (when connection disassembled)	NA
B06.170	Nuts , Bushings and Washers	NA
	<b>Pumps</b>	
B06.180	Bolts and Studs	0
B06.190	Flange Surface, (when connection disassembled)	0
B06.200	Nuts , Bushings and Washers	0
	<b>Valves</b>	
B06.210	Bolts and Studs	NA
B06.220	Flange Surface, (when connection disassembled)	NA
B06.230	Nuts , Bushings and Washers	NA
<b>TOTALS</b>		31

**Examination Category B-G-2**
**Pressure Retaining Bolting, 2" and Less in Diameter**

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

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

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

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.010	Nominal Pipe Size 4" or Larger	
B09.011	Circumferential Welds	6
B09.012	Longitudinal Welds <sup>1</sup>	0
B09.020	Nominal Pipe Size Less Than 4"	
B09.021	Circumferential Welds	10
B09.022	Longitudinal Welds <sup>1</sup>	NA

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

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.030	Branch Pipe Connection Welds	
B09.031	Nominal Pipe Size 4" or Larger	2
B09.032	Less Than Nominal Pipe Size 4"	0
B09.040	Socket Welds	1
<b>TOTALS</b>		19

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

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



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

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

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

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

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

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

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

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B14.010	Welds in CRD Housing	0
<b>TOTALS</b>		0

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

**REFERENCE SECTION 11.0 OF THIS REPORT**

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

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

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

<b><i>Item Number</i></b>	<b><i>Description</i></b>	<b><i>Total Examined During Outage</i></b>
F1.010	Class 1 Piping Supports Reference Section 4.0 of this report	3
F1.040	Class 1 Supports Other Than Piping Reference Section 4.0 of this report	0
F1.050	Class 1 Snubbers	26
<b>TOTALS</b>		29

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

## 2.2 Class 2 Inspections

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

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

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

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

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

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

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

<i><b>Item Number</b></i>	<i><b>Description</b></i>	<i><b>Total Examined During Outage</b></i>
	<b><i>Pressure Vessels</i></b>	
C03.010	Integrally Welded Attachments	2
	<b><i>Piping</i></b>	
C03.020	Integrally Welded Attachments	10
	<b><i>Pumps</i></b>	
C03.030	Integrally Welded Attachments	0
	<b><i>Valves</i></b>	
C03.040	Integrally Welded Attachments	NA
<b>TOTALS</b>		12

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

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

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

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
C05.010	Piping Welds $\geq 3/8$ " Nominal Wall Thickness for Piping > Nominal Pipe Size 4"	
C05.011	Circumferential Weld	1
C05.012	Longitudinal Welds <sup>3</sup>	NA
C05.020	Piping Welds $> 1/5$ " Nominal Wall Thickness for Piping $\geq$ Nominal Pipe Size 2" and $\leq$ Nominal Pipe Size 4"	
C05.021	Circumferential Welds	23
C05.022	Longitudinal Welds <sup>3</sup>	NA
C05.030	Socket Welds	1
C05.040	Pipe Branch Connections of Branch Piping $\geq$ Nominal Pipe Size 2"	
C05.041	Circumferential Weld	0
C05.042	Longitudinal Weld <sup>3</sup>	NA
<b>TOTALS</b>		25

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

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

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

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



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

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

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

REFERENCE SECTION 11.0 OF THIS REPORT

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F1.020	Class 2 Piping Supports Reference Section 4.0 of this report	10
F1.040	Class 2 Supports Other Than Piping Reference Section 4.0 of this report	0
F1.050	Class 2 Snubbers Reference Section 4.0 of this report	36
<b>TOTALS</b>		46

### 2.3 Augmented Inspections

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

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

### 3.0 Third Ten Year Inspection Status

The completion status of inspections required in the third ten year inspection interval by the 1989 ASME Section XI Code, no Addenda, is summarized in this section. The requirements are listed by the ASME Section XI Examination Category as defined in Table IWB-2500-1 for Class 1 Inspections, and in Table IWC-2500-1 for Class 2 Inspections. Augmented inspections are also included.

#### Class 1 Inspections

<i><b>Examination Category</b></i>	<i><b>Description</b></i>	<i><b>Inspections Required</b></i>	<i><b>Inspections Completed</b></i>	<i><b>Percentage Completed</b></i>	<i><b><sup>4</sup>Deferral Allowed</b></i>
B-A	Pressure Retaining Welds in Reactor Vessel	8 Welds	2.5 Welds	31%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	12 Welds	5 Welds	42%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	30 Inspections	16 Inspections	53%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	REFERENCE SECTION 11.0 OF THIS REPORT			
B-F	Pressure Retaining Dissimilar Metal Welds	28 Welds	14 Welds	50%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	130 Items	64.66 Items	50%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	24 Items	10 Items	42%	No
B-H	Integral Attachment for Vessels	N/A	N/A	N/A	N/A
B-J	Pressure Retaining Welds in Piping	143 Welds	73.5 Welds	51%	No

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

### Class 1 Inspections (Continued)

<b>Examination Category</b>	<b>Description</b>	<b>Inspections Required</b>	<b>Inspections Completed</b>	<b>Percentage Completed</b>	<b><sup>5</sup> Deferral Allowed</b>
B-K-1	Integral Attachments for Piping, Pumps and Valves	N/A	N/A	N/A	N/A
B-L-1	Pressure Retaining Welds in Pump Casings	1 Weld	1 Welds	100%	Yes
B-L-2	Pump Casings	1 Casing	1 Casing	100%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	N/A	N/A	N/A	N/A
B-M-2	Valve Body > 4 in. Nominal Pipe Size	3 Valves	3 Valves	100%	Yes
B-N-1	Interior of Reactor Vessel	3 Inspections	2 Inspection	67%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	N/A	N/A	N/A	N/A
B-N-3	Removable Core Support Structures	1 Item	0 Items	0%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	3 Housings	2 Housings	67%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	N/A	N/A	N/A	N/A
F-A F1.010 & F1.040 items.	Class 1 Component Supports (Except Snubbers)	31 Supports	16 Supports	52%	No
F-A F1.050 items	Class 1 Component Supports, Snubbers	26 Snubbers	26 Snubbers	100%	No

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

## Class 2 Inspections

<b>Examination Category</b>	<b>Description</b>	<b>Inspections Required</b>	<b>Inspections Completed</b>	<b>Percentage Completed</b>	<b><sup>5</sup> Deferral Allowed</b>
C-A	Pressure Retaining Welds in Pressure Vessels	8 Welds	5 Welds	63%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	4 Welds	2 Welds	50%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	62 Attachments	37 Attachments	60%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	2 Item	2 Items	100%	No
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	136 Welds	71Welds	52%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	59 Welds	27Welds	46%	No
C-G	Pressure Retaining Welds in Pumps and Valves	1	1	100%	No
C-H	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
F-A F1.020 & F1.040 items.	Class 2 Component Supports (Except Snubbers)	119 Supports	65 Supports	55%	No
F-A F1.050 items	Class 2 Component Supports, Snubbers	36 Snubbers	36 Snubbers	100%	No

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

### Augmented Inspections

<i>Description</i>	<i>Percentage Complete</i>
Reactor Coolant Pump Flywheels (Item No. Series G01)	Not Scheduled
High Pressure Injection and Make-Up Nozzle Safe-Ends (Item No. Series G02)	Not Scheduled
Pressurizer Surge Line Drain Line (Item No. Series G03)	Not Scheduled
Thermal Stress Piping (Item No. Series G04)	Not Scheduled
Auxiliary Feedwater Header Preliminary Safety Concern (PSC 21-82) Water Hammer Examinations (Item No. Series G06)	Not Scheduled
Augmented Examination of Longitudinal Piping Welds With A Nominal Wall Thickness Less Than 3/8" and Greater Than Nominal Pipe Size 4" (Item No. Series G07)	No longer applicable. Code Case N-524 is being used for the examination of all longitudinal piping welds.
Pressurizer Sensing/Sampling Nozzle Safe Ends (Item No. Series G08)	Not Scheduled
Class 2 Piping Welds Nominal Pipe Size Greater Than 4" With A Nominal Wall Thickness Less Than 3/8" (Item No. Series G09)	100% of EOC 18 Requirements
Class 1 RTE Mounting Bosses (Item No. Series G10)	100% of EOC 18 Requirements
Reactor Coolant Pump 3A2 and 3B1 Flange Joint, Studs, Adjacent Areas (Item No. Series G11)	100% of EOC 18 Requirements
HPI System Upgrade (Item No. Series G12)	100% of EOC 18 Requirements

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

The final ISI Plan shown in this section lists all ASME Section XI Class 1 and ASME Section XI Class 2, and Augmented examinations credited for EOC18 (Outage 4) at Oconee Nuclear Station, Unit 3.

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

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

CATEGORY B-F, Pressure Retaining  
Dissimilar Metal Welds

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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
**** NPS 4 or Larger; Dissimilar Metal Butt Welds ****								
B05.130.001	3-53A-18-11	53A 3-53A-18	NDE-610	UT	SS-Inconel	12.000	40413	Inspect at the same time that you inspect weld #3-PHA-17.
	Circumferential	OFD-102A-3.1				1.125		
Class A	Dissimilar			Pipe to				Decay Heat Noz Safe End
B05.130.001A	3-53A-18-11	53A 3-53A-18	NDE-35	PT	SS-Inconel	12.000		Inspect at the same time that you inspect weld #3-PHA-17.
	Circumferential	OFD-102A-3.1				1.125		
Class A	Dissimilar			Pipe to				Decay Heat Noz Safe End
B05.130.002	3-PHA-17	50 ISI-OCN3-005	NDE-610	UT	CS-Inconel	12.000	40413	Inspect at the same time that you inspect Weld # 3-53A-18-11
	Circumferential	OFD-100A-3.1				1.125		
Class A	Dissimilar			Nozzle Decay Heat Nozzle to				Safe End Buttering
B05.130.002A	3-PHA-17	50 ISI-OCN3-005	NDE-35	PT	CS-Inconel	12.000		Inspect at the same time that you inspect weld #3-53A-18-11
	Circumferential	OFD-100A-3.1				1.125		
Class A	Dissimilar			Nozzle Decay Heat Nozzle to				Safe End Buttering
<hr/>								
Total B05.130 Items:		4						
Total B05 Items:		4						



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

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## Reactor Vessel

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### Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Head Nuts ****									
B06.010.010	3RPV-26-209-10	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.011	3RPV-26-209-11	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.012	3RPV-26-209-12	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.013	3RPV-26-209-13	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.014	3RPV-26-209-14	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.015	3RPV-26-209-15	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.016	3RPV-26-209-16	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.017	3RPV-26-209-17	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									

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

## Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
B06.010.018	3RPV-26-209-18	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.019	3RPV-26-209-19	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.020	3RPV-26-209-20	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.021	3RPV-26-209-21	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.022	3RPV-26-209-22	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.023	3RPV-26-209-23	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
B06.010.024	3RPV-26-209-24	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	9.250 1.300		Closure Head Nut
Class A									
Total B06.010 Items:		15							

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" 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
<b>**** Closure Studs, when removed ****</b>								
B06.030.010 Class A	3RPV-25-209-10	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS		6.500 0.000 40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.010A Class A	3RPV-25-209-10	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS		6.500 0.000	Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.011 Class A	3RPV-25-209-11	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS		6.500 0.000 40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.011A Class A	3RPV-25-209-11	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS		6.500 0.000	Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.012 Class A	3RPV-25-209-12	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS		6.500 0.000 40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.012A Class A	3RPV-25-209-12	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS		6.500 0.000	Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.013 Class A	3RPV-25-209-13	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS		6.500 0.000 40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.013A Class A	3RPV-25-209-13	50 OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS		6.500 0.000	Reactor Closure Stud.Inspect when removed.Stud Length-63.250"

## Reactor Vessel

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

## Reactor Vessel

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B06.030.018A Class A	3RPV-25-209-18	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.019 Class A	3RPV-25-209-19	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS	6.500 0.000	40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.019A Class A	3RPV-25-209-19	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.020 Class A	3RPV-25-209-20	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS	6.500 0.000	40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.020A Class A	3RPV-25-209-20	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.021 Class A	3RPV-25-209-21	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS	6.500 0.000	40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.021A Class A	3RPV-25-209-21	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
B06.030.022 Class A	3RPV-25-209-22	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-944	UT	CS	6.500 0.000	40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250" Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.022A Class A	3RPV-25-209-22	50	OM-2201-52 B&W 149922 OM-2201-51	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"

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

## Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.023	3RPV-25-209-23	50	OM-2201-52 B&W 149922	NDE-944	UT	CS	6.500 0.000	40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
Class A			OM-2201-51						Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.023A	3RPV-25-209-23	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
Class A			OM-2201-51						
B06.030.024	3RPV-25-209-24	50	OM-2201-52 B&W 149922	NDE-944	UT	CS	6.500 0.000	40420	Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
Class A			OM-2201-51						Note: Added cal block (Ref. Addenda ONS3-014)
B06.030.024A	3RPV-25-209-24	50	OM-2201-52 B&W 149922	NDE-25	MT	CS	6.500 0.000		Reactor Closure Stud.Inspect when removed.Stud Length-63.250"
Class A			OM-2201-51						
Total B06.030 Items:		30							

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" 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 Washers, Bushings ****								
B06.050.001A	3RPV-WASH-BUSH	50 OM-2201-52 B&W 149922E	QAL-13	VT-1	CS	0.000 0.000		Reactor Vessel Closure Washers & Bushings.Stud Holes 10-24

Class A

Total B06.050 Items:	1
Total B06 Items:	46

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

## CRD Housings

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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-BOLTS	50	B&W 149902E B&W 149919E	QAL-13	VT-1	NA		0.000 0.000	Inspect Only If Disassembled; See Request for Relief ONS-004 & ONS-005; 8 bolts per CRD Housing; (14 Connections inspected up to this Date). Ref. Addendum ONS3-020 - connection not disassembled during 3EOC15.
Class A									
B07.080.002	3-RPV-CRD-RINGS	50	B&W 149902E B&W 149919E	QAL-13	VT-1	NA		0.000 0.000	Inspect Only If Disassembled; See Request for Relief ONS-004 & ONS-005; 1 Pair per CRD Housing; (14 Connections inspected up to this date). Ref. Addendum ONS3-020 - connection not disassembled during 3EOC15.
Class A									
Total B07.080 Items:		2							
Total B07 Items:		2							



CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

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

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Welds ****									
B09.011.002	3-PHA-12	50	ISI-OCN3-005	NDE-600	UT	CS	42.750		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential		OFD-100A-3.1				2.856		
Class A	Term end				Pipe to Nozzle S/G 3A Nozzle				
B09.011.002A	3-PHA-12	50	ISI-OCN3-005	NDE-25	MT	CS	42.750		
	Circumferential		OFD-100A-3.1				2.856		
Class A	Term end				Pipe to Nozzle S/G 3A Nozzle				
B09.011.017	3-PDA1-1	50	ISI-OCN3-011	NDE-600	UT	SS	33.500		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential		OFD-100A-3.1				2.330		
Class A	Term end				Nozzle 3A1 Pump Outlet Nozzle to Safe End				
B09.011.017A	3-PDA1-1	50	ISI-OCN3-011	NDE-35	PT	SS	33.500		
	Circumferential		OFD-100A-3.1				2.330		
Class A	Term end				Nozzle 3A1 Pump Outlet Nozzle to Safe End				
B09.011.025	3-PSL-1	50	ISI-OCN3-015	NDE-600	UT	SS	10.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential		OFD-100A-3.2				1.000		
Class A	Term end / Stress weld				Nozzle PZR Surge Nozzle Safe/End to Elbow				
B09.011.025A	3-PSL-1	50	ISI-OCN3-015	NDE-35	PT	SS	10.000		
	Circumferential		OFD-100A-3.2				1.000		
Class A	Term end / Stress weld				Nozzle PZR Surge Nozzle Safe/End to Elbow				
B09.011.034	3-PSP-3	50	ISI-OCN3-016	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential		OFD-100A-3.2				0.438		
Class A	Stress weld				Elbow to Reducer				
B09.011.034A	3-PSP-3	50	ISI-OCN3-016	NDE-35	PT	SS	4.000		
	Circumferential		OFD-100A-3.2				0.438		
Class A	Stress weld				Elbow to Reducer				

CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.046	3-53A-16-5	53A 3-53A-16	NDE-600	UT	SS	14.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-102A-3.3				1.250		
Class A				Pipe to Elbow				
B09.011.046A	3-53A-16-5	53A 3-53A-16	NDE-35	PT	SS	14.000		
	Circumferential	OFD-102A-3.3				1.250		
Class A				Pipe to Elbow				
B09.011.047	3-53A-17-12	53A 3-53A-17	NDE-600	UT	SS	10.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-102A-3.2				1.000		
Class A		OFD-102A-3.3		Elbow to Pipe				
B09.011.047A	3-53A-17-12	53A 3-53A-17	NDE-35	PT	SS	10.000		
	Circumferential	OFD-102A-3.2				1.000		
Class A		OFD-102A-3.3		Elbow to Pipe				

Total B09.011 Items: 12

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 ****								
B09.021.008	3-PSP-11	50 ISI-OCN3-016	NDE-35	PT	SS	2.500		
	Circumferential	OFD-100A-3.2				0.375		
Class A					Tee to Valve 3RC-001			
B09.021.012	3-PSP-24	50 ISI-OCN3-016	NDE-35	PT	SS	1.500		
	Circumferential	OFD-100A-3.2				0.281		
Class A	Stress weld				Tee to Reducer			
B09.021.019	3-51A-140-1	51A 3-51A-140	NDE-35	PT	SS	3.000		
	Circumferential	OFD-101A-3.1				0.438		
Class A	Term end				Letdown Cooler 3B Outlet to Elbow			
B09.021.020	3-51A-140-29	51A 3-51A-140	NDE-35	PT	SS	2.000		
	Circumferential	OFD-101A-3.1				0.344		
Class A					Reducer to Pipe			
B09.021.034	3HP-243-15	51A 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	OFD-101A-3.4				0.375		
Class A					Pipe to Elbow			
B09.021.051	3-51A-69-26A	51A 3-51A-69	NDE-35	PT	SS	2.500		
	Circumferential	OFD-100A-3.1				0.375		
Class A					Pipe to Elbow			
B09.021.052	3-51A-69-29A	51A 3-51A-69	NDE-35	PT	SS	2.500		
	Circumferential	OFD-100A-3.1				0.375		
Class A					Elbow to Pipe			
B09.021.066	3-PSP-9	50 ISI-OCN3-016	NDE-35	PT	SS	2.500		
	Circumferential	OFD-100A-3.2				0.375		
Class A					Valve 3RC-003 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
B09.021.067	3-PSP-18	50 ISI-OCN3-016	NDE-35	PT	SS	2.500		
	Circumferential	OFD-100A-3.2				0.375		
	Class A			Pipe to Pipe				
B09.021.068	3-PSP-21	50 ISI-OCN3-016	NDE-35	PT	SS	2.500		
	Circumferential	OFD-100A-3.2				0.375		
	Class A			Pipe to Pipe Pipe Bend				

Total B09.021 Items: 10

CATEGORY B-J, Pressure Retaining Welds In Piping

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

Branch Pipe Connection Welds

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** NPS 4 or Larger ****								
B09.031.002	3-PHA-16	50	ISI-OCN3-005	NDE-600	UT	CS	25.000	NPS of the Decay Heat Nozzle = 12 inch Diameter & 1.125 Thickness Reference Request for Relief 95-GO-03 for calibration block. The NPS of the branch line is 12 inches.
	Branch		OFD-100A-3.1				2.875	
Class A							Nozzle Decay Heat Nozzle to Pipe	
B09.031.002A	3-PHA-16	50	ISI-OCN3-005	NDE-25	MT	CS	25.000	NPS of the Decay Heat Nozzle = 12 inch Diameter & 1.125 Thickness The NPS of the branch line is 12 inches.
	Branch		OFD-100A-3.1				2.875	
Class A							Nozzle Decay Heat Nozzle to Pipe	
Total B09.031 Items:		2						
**** Less Than NPS 4 ****								
B09.032.007	3-PDB1-12	50	ISI-OCN3-013	NDE-25	MT	CS	12.000	The NPS of the branch line is 2.5 inches.
	Branch		OFD-100A-3.1				2.500	
Class A	Stress weld						Pipe to Nozzle PZR Spray Line Nozzle	
Total B09.032 Items:		1						

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

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**Socket Welds**

Oconee 3

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.003	3-50-152-28	50 3-50-152	NDE-35	PT	SS	1.500		
	Socket	OFD-100A-3.2				0.281		
	Class A				Valve 3LP-131 to Pipe			
Total B09.040 Items:		1						
Total B09 Items:		26						

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
**** Vessel Interior ****								
B13.010.001	3RPV-INT SUR	50 ISI-OCN3-001	QAL-14	VT-3	SS	0.000		Interior Surfaces of Vessel, use Procedure ISI-354
						0.000		also

Class A

Total B13.010 Items:	1
Total B13 Items:	1

CATEGORY C-A, Pressure Retaining Welds  
In Pressure Vessels

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Head Circumferential Welds

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.020.003	3LPCA-HD-SHL		NDE-630	UT	SS	46.000	40385	LP Cooler A Head Flange to Shell
	Circumferential	OM-2201-277				0.750		
	Class B	OFD 102A-3.2		Shell to Head				
Total C01.020 Items:		1						
Total C01 Items:		1						



CATEGORY C-C, Integral 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
**** Integrally Welded Attachments ****								
C03.010.001	3SGA-WG84-YZ	03 B&W-149824E OM 2201-1451	NDE-25	MT	CS	0.000 1.000		SGA FDW. HDR. ATTACH.Y-Z QUAD. NEAREST TO Y-AXIS
Class B								
C03.010.002	3SGA-WG84-ZY	03 B&W-149824E OM 2201-1451	NDE-25	MT	CS	0.000 1.000		SGA FDW. HDR. ATTACH.Z-Y QUAD. NEAREST TO Z-AXIS
Class B								
<hr/>								
Total C03.010 Items:		2						

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

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Piping

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Integrally Welded Attachments ****								
C03.020.001	3-01A-H11B	01A 0-2481B	NDE-25	MT	CS	26.000		File no. OSC-1334
	Constant Support	OFD-122A-3.1				3.000		Prob. No. 3-01-07
Class B		0-2490A-2(S)						Main Steam System
C03.020.003	3-01A-H1B	01A 0-2480A	NDE-25	MT	CS	26.000		File no. OSC-1334
	Constant Support	OFD-122A-3.1				1.500		Prob. No. 3-01-07
Class B		0-2490A-2(S)						Main Steam System
C03.020.009	3-01A-H7B	01A 0-2480A	NDE-25	MT	CS	26.000		File no. OSC-1334
	Constant Support	OFD-122A-3.1				0.750		Prob. No. 3-01-07
Class B		0-2490A-2(S)						Main Steam System
C03.020.012	3-03-H15A	03 0-2481A	NDE-25	MT	CS	24.000		File no. OSC-1335 Page 6(1)-72
	Spring Hgr	OFD-121B-3.3				1.500		Prob. No. 3-03-07
Class B								Main Feedwater System
C03.020.014	3-14B-H10	14B 0-2479A	NDE-25	MT	CS	6.000		File No. OSC-2056
	Rigid Restraint	OFD-124B-3.2				0.750		Page No. 134
Class B								Problem No. 3-14B-14A
C03.020.016	3-14B-H19D	14B 0-2479A	NDE-25	MT	CS	8.000		File No. OSC-1344-06
	Rigid Restraint	OFD-124B-3.2				1.500		Page No. 6(1) 38
Class B								Problem No. 3-14B-09; System 14B
								This support can be found on hanger sketch
								3-14B-0-2479A-H19.
								(6 hangers were combined to make one large gang
								hanger.)
C03.020.029	3-53B-R3	53B 5-0-2436D	NDE-35	PT	SS	10.000		File No. OS-551
	Rigid Restraint	OFD-102A-3.2				1.000		Page No. 61
Class B								Problem No. 3-53-04; System 53B
C03.020.039	3SGA-WG87-YZ	03 B&W-149824E	NDE-25	MT	CS	0.000		SGA FDW. HDR. ATTACH.Y-Z QUAD. NEAREST
						1.000		TO Y-AXIS
Class B								

CATEGORY C-C, Integral 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
C03.020.040	3SGA-WG87-ZY	03 B&W-149824E	NDE-25	MT	CS	0.000 1.000		SGA FDW. HDR. ATTACH. Z-Y QUAD. NEAREST TO Z-AXIS
Class B								
C03.020.049	3-01A-R6 Constant Support	01A 0-2401B OFD-122A-3.1	NDE-25	MT	CS	36.000 1.000		Struc. calc # OSC-1000; Prob. # OS 506/3-01A; Data point 100
Class B								
Total C03.020 Items:		10						
Total C03 Items:		12						

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

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

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

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****								
C05.011.008	3LP-132-6	53A 3LP-132	NDE-600	UT	SS	10.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-102A-3.2				1.125		This weld was listed previously as 3-53A-24-6 until iso 3-53A-24 was redrawn.
Class B				Elbow to Pipe				
C05.011.008A	3LP-132-6	53A 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	OFD-102A-3.2				1.125		
Class B				Elbow to Pipe				
Total C05.011 Items:		2						

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 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****								
C05.021.007	3-51A-118-19	51A 3-51A-118	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.4				0.531		
Class B				Pipe to Elbow				
C05.021.007A	3-51A-118-19	51A 3-51A-118	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B				Pipe to Elbow				
C05.021.013	3-51A-119-13	51A 3-51A-119	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.4				0.531		
Class B				Elbow to Pipe				
C05.021.013A	3-51A-119-13	51A 3-51A-119	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B				Elbow to Pipe				
C05.021.017	3-51A-120-16	51A 3-51A-120	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.4				0.531		
Class B				Pipe to Elbow				
C05.021.017A	3-51A-120-16	51A 3-51A-120	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B				Pipe to Elbow				
C05.021.032	3-51A-50-69	51A 3-51A-50	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.3				0.237		
Class B				Reducer to Elbow				
C05.021.032A	3-51A-50-69	51A 3-51A-50	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.237		
Class B				Reducer 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 >= NPS 2 And <= NPS 4

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.040	3-51A-52-46	51A 3-51A-52	NDE-600	UT	SS	3.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.3				0.438		
Class B	Term end				Elbow to Flange HPI Pump 3A Outlet			
C05.021.040A	3-51A-52-46	51A 3-51A-52	NDE-35	PT	SS	3.000		
	Circumferential	OFD-101A-3.3				0.438		
Class B	Term end				Elbow to Flange HPI Pump 3A Outlet			
C05.021.043	3-51A-59-12C	51A 3-51A-59	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.4				0.674		
Class B					Pipe to Tee			
C05.021.043A	3-51A-59-12C	51A 3-51A-59	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.674		
Class B					Pipe to Tee			
C05.021.050	3-51A-66-40	51A 3-51A-66	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.4				0.674		
Class B					Valve 3HP-27 to Elbow			
C05.021.050A	3-51A-66-40	51A 3-51A-66	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.674		
Class B					Valve 3-HP-27 to Elbow			
C05.021.054	3-51A-67-28	51A 3-51A-67	NDE-600	UT	SS	2.500		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.1				0.375		
Class B					Elbow to Pipe			
C05.021.054A	3-51A-67-28	51A 3-51A-67	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-3.1				0.375		
Class B					Elbow to Pipe			
C05.021.064	3-51A-87-54A	51A 3-51A-87	NDE-600	UT	SS	4.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-101A-3.4				0.531		
Class B					Valve 3HP-130 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

Inservive Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.064A	3-51A-87-54A	51A 3-51A-87	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B					Valve 3HP-130 to Pipe			
C05.021.074	3-51A-118-12	51A 3-51A-118	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.4				0.531		
Class B					Pipe to Elbow			
C05.021.074A	3-51A-118-12	51A 3-51A-118	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B					Pipe to Elbow			
C05.021.078	3-51A-120-25	51A 3-51A-120	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.4				0.531		
Class B					Elbow to Pipe			
C05.021.078A	3-51A-120-25	51A 3-51A-120	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B					Elbow to Pipe			
C05.021.089	3HP-312-V2	51A 3HP-312	NDE-600	UT	SS	2.500		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.4				0.375		This weld was originally listed as 3-51A-59-32, until isometric 3-51A-59 was redrawn as 3HP-312.
Class B					Valve 3HP-120 to Pipe			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.
C05.021.089A	3HP-312-V2	51A 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.
	Circumferential	OFD-101A-3.4				0.375		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.
Class B					Valve 3HP-120 to Pipe			
C05.021.093	3-51A-67-60	51A 3-51A-67	NDE-600	UT	SS	2.500		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.1				0.375		
Class B					Pipe to Tee			

**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 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.093A	3-51A-67-60	51A 3-51A-67	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-3.1				0.375		
Class B				Pipe to Tee				
C05.021.099	3-51A-117-1	51A 3-51A-117	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Tee to Pipe				
C05.021.099A	3-51A-117-1	51A 3-51A-117	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Tee to Pipe				
C05.021.100	3-51A-117-15	51A 3-51A-117	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Pipe to Elbow				
C05.021.100A	3-51A-117-15	51A 3-51A-117	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Pipe to Elbow				
C05.021.101	3-51A-117-3A	51A 3-51A-117	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Elbow				
C05.021.101A	3-51A-117-3A	51A 3-51A-117	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Elbow				
C05.021.102	3-51A-117-9	51A 3-51A-117	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Pipe to Elbow				
C05.021.102A	3-51A-117-9	51A 3-51A-117	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				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 >= NPS 2 And <= NPS 4**

**Oconee 3**

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

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.103	3-51A-53-11	51A 3-51A-53	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Pipe to Elbow				
C05.021.103A	3-51A-53-11	51A 3-51A-53	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Pipe to Elbow				
C05.021.104	3-51A-53-26	51A 3-51A-53	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Elbow				
C05.021.104A	3-51A-53-26	51A 3-51A-53	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Elbow				
C05.021.105	3-51A-53-4	51A 3-51A-53	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Pipe				
C05.021.105A	3-51A-53-4	51A 3-51A-53	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Pipe				
C05.021.106	3-51A-53-9	51A 3-51A-53	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Pipe				
C05.021.106A	3-51A-53-9	51A 3-51A-53	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.3				0.531		
Class B				Elbow to Pipe				
C05.021.107	3-51A-58-12	51A 3-51A-58	NDE-600	UT	SS	4.000		Reference Request for Relief 95-02 for calibration block.
	Circumferential	OFD-101A-3.4				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 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.107A	3-51A-58-12	51A 3-51A-58	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-3.4				0.531		
Class B				Tee to Pipe				
C05.021.108	3-51A-58-19A	51A 3-51A-58	NDE-600	UT	SS	2.500		Reference Request for Relief 95-02 for calibration
	Circumferential	OFD-101A-3.4				0.375		block.
Class B				Tee to Pipe				
C05.021.108A	3-51A-58-19A	51A 3-51A-58	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-3.4				0.375		
Class B				Tee to Pipe				
Total C05.021 Items:		46						

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

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**Socket Welds**

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

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.030.005	3-51B-57-25A	51B 3-51B-57	NDE-35	PT	SS	2.000		
	Socket	OFD-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  
QUALITY ASSURANCE TECHNICAL SERVICES  
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**Piping Welds >= 3/8 in. Nominal Wall Thickness  
for Piping > NPS 4**

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

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>								
C05.051.008	3-01A-17-4	01A 3-01A-17	NDE-600	UT	CS	12.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-122A-3.1				0.562		
Class B				Pipe to Elbow				
C05.051.008A	3-01A-17-4	01A 3-01A-17	NDE-25	MT	CS	12.000		
	Circumferential	OFD-122A-3.1				0.562		
Class B				Pipe to Elbow				
C05.051.025	3-03A-17-42	03A 3-03A-17	NDE-600	UT	CS	6.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-121D-3.1				0.562		
Class B				Pipe to Tee				
C05.051.025A	3-03A-17-42	03A 3-03A-17	NDE-25	MT	CS	6.000		
	Circumferential	OFD-121D-3.1				0.562		
Class B				Pipe to Tee				
C05.051.030	3-14B-116-56	14B 3-14B-116	NDE-600	UT	CS	6.000		Reference Request for Relief 95-GO-03 for calibration block.
	Circumferential	OFD-124B-3.2				0.432		
Class B				Tee to Flange				
C05.051.030A	3-14B-116-56	14B 3-14B-116	NDE-25	MT	CS	6.000		
	Circumferential	OFD-124B-3.2				0.432		
Class B				Tee to Flange				
C05.051.032	3LPS-521-2	14B 3LPS-521	NDE-600	UT	CS	8.000		Reference Request for Relief 95-GO-03 for calibration block. This weld was listed previously as 3-14B-117-47A until iso 3-14B-117 was redrawn.
	Circumferential	OFD-124B-3.2				0.500		
Class B				Pipe to Elbow				
C05.051.032A	3LPS-521-2	14B 3LPS-521	NDE-25	MT	CS	8.000		
	Circumferential	OFD-124B-3.2				0.500		
Class B				Pipe to Elbow				

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

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Pipe Branch Connections of Branch Piping >=  
NPS 2

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****								
C05.081.003	3MS-12B-A-1	01A 3-01A-13	NDE-25	MT	CS	8.000		Grinnell Subassembly 3MS-12B
	Branch	OFD-122A-3.1				0.906		Inspect the Gaurd Pipe to Reinforcing Collar weld
Class B		3MS-12B		Pipe to Pipe				AND the Reinforcing Collar to the Main Steam Header pipe Weld. This is done because weld# 3-MS12B-A is Inaccessable due to Gaurd Pipe. See Request for Relief ONS-010.
Total C05.081 Items:		1						
Total C05 Items:		58						

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

**Integral Attachment**

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### Inservice Inspection Plan for Interval 3 Outage 4

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Component Supports and Restraints ****									
D02.020.020	3-03A-H118	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No. OSC-526
	Rigid Restraint		OFD-121D-3.1					0.125	Page No. 41; Problem No. 3-03A-09
Class C									Emergency Feedwater System
D02.020.021	3-03A-H120	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No. OSC-526
	Rigid Restraint		OFD-121D-3.1					0.125	Page No. 41; Problem No. 3-03A-09
Class C									Emergency Feedwater System
D02.020.022	3-03A-H125	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No. OSC-1209
	Rigid Restraint		OFD-121D-3.1					0.500	Page No. 29; Problem No. 3-03A-12
Class C									Emergency Feedwater System
D02.020.025	3-03A-H130	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No. OSC-526
	Rigid Restraint		OFD-121D-3.1					0.125	Page No. 41; Problem No. 3-03A-09
Class C									Emergency Feedwater System
D02.020.029	3-03A-H147	03A	1-0-2400B	QAL-14	VT-3	NA		6.000	File No. OSC-1209
	Rigid Restraint		OFD-121D-3.1					0.500	Page No. 28; Problem No. 3-03A-12
Class C									Emergency Feedwater System
D02.020.030	3-03A-H149	03A	1-0-2400B	QAL-14	VT-3	NA		6.000	File No. OSC-1209
	Rigid Restraint		OFD-121D-3.1					0.500	Page No. 28; Problem No. 3-03A-12
Class C									Emergency Feedwater System
D02.020.032	3-03A-H175	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No. OSC-1209
	Rigid Restraint		OFD-121D-3.1					0.125	Page No. 28; Problem No. 3-03A-12
Class C									Emergency Feedwater System
D02.020.033	3-03A-H194	03A	1-0-2437B	QAL-14	VT-3	NA		6.000	File No. OSC-525
	Rigid Restraint		OFD-121D-3.1					0.125	Page No. 44.1; Problem No. 3-03A-08
Class C									Emergency Feedwater System

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

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### Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
D02.020.036	3-03A-H5	03A	1-0-2439C	QAL-14	VT-3	NA	6.000		File No. OSC-1224-23
Class C	Rigid Restraint		OFD-121D-3.1				0.375		Page No. 25.3; Problem No. 3-03A-13
									Aux Service Water Piping
D02.020.040	3-03A-SR129	03A	1-0-2400A	QAL-14	VT-3	NA	6.000		File No. OSC-526
Class C	Rigid Restraint		OFD-121D-3.1				0.500		Page No. 41; Problem No. 3-03A-09
									Emergency Feedwater System
D02.020.045	3-03A-SR185	03A	1-0-2444	QAL-14	VT-3	NA	6.000		File No. OS-524
Class C	Rigid Restraint		OFD-121D-3.1				0.500		Page No. 63; Problem No. 3-03A-07
									Emergency Feedwater System
D02.020.046	3-03A-SR36	03A	1-0-2439B	QAL-14	VT-3	NA	6.000		File No. OS-519
Class C	Rigid Restraint		OFD-121D-3.1				0.125		Page No. 54; Problem No. 3-03A-06
									Emergency Feedwater System
D02.020.051	3-03A-H180	03A	1-0-2439B	QAL-14	VT-3	NA	6.000		File No. OS-524
Class C	Rigid Restraint		OFD-121D-3.1				0.125		Page No. 63; Problem No. 3-03A-07
					Sway Strut to				Emergency Feedwater System
D02.020.054	3-03A-H207	03A	1-0-2400A	QAL-14	VT-3	NA	6.000		File No. OSC-1209
Class C	Rigid Restraint		OFD-121D-3.1				0.375		Page No. 28; Problem No. 3-03A-12
									Emergency Feedwater System
D02.020.058	3-03A-SR113	03A	1-0-2400A	QAL-14	VT-3	NA	6.000		File No. OSC-526
Class C	Rigid Restraint		OFD-121D-3.1				0.500		Page No. 42; Problem No. 3-03A-09
									Emergency Feedwater System
D02.020.063	3-03A-SR122	03A	1-0-2400A	QAL-14	VT-3	NA	6.000		File No. OSC-1209
Class C	Rigid Restraint		OFD-121D-3.1				1.000		Page No. 28; Problem No. 3-03A-12
									Emergency Feedwater System
D02.020.072	3-03A-SR146	03A	1-0-2400B	QAL-14	VT-3	NA	6.000		File No. OSC-1209
Class C	Rigid Restraint		OFD-121D-3.1				0.500		Page No. 28; Problem No. 3-03A-12
									Emergency Feedwater System

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

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
D02.020.073	3-03A-SR148	03A 1-0-2400B	QAL-14	VT-3	NA	6.000		File No. OSC-1209
	Rigid Restraint	OFD-121D-3.1				0.500		Page No. 28; Problem No. 3-03A-12
Class C								Emergency Feedwater System
D02.020.076	3-03A-SR17	03A 1-0-2401A	QAL-14	VT-3	NA	6.000		File No. OS-516
	Rigid Restraint	OFD-121D-3.1				1.000		Page No. 54; Problem No. 3-03A-04
Class C								Emergency Feedwater Pump Discharge
D02.020.086	3-03A-SR55	03A 1-0-2400A	QAL-14	VT-3	NA	6.000		File No. OSC-1209
	Rigid Restraint	OFD-121D-3.1				1.000		Page No. 29; Problem No. 3-03A-12
Class C								Emergency Feedwater System
D02.020.137	3-14B-SR7	14B 6-0-2438B	QAL-14	VT-3	NA	6.000		File No. OSC-529
	Rigid Restraint	OFD-121D-1.2				1.000		Page No. 69
Class C								Problem No. 3-14B-02; Aux Service Water Piping
D02.020.138	3-14B-SR8	14B 6-0-2438B	QAL-14	VT-3	NA	6.000		File No. OSC-529
	Rigid Restraint	OFD-121D-1.2				1.000		Page No. 69
Class C								Problem No. 3-14B-02; Aux Service Water Piping
D02.020.141	3-14B-WM-7002	14B 0-2437A	QAL-14	VT-3	NA	6.000		File No. OSC-529
	Rigid Restraint	OFD-121D-1.2				0.500		Page No. 69
Class C								Problem No. 3-14B-02; Aux Service Water Piping
D02.020.148	2-WL-100A-K0031	WL KFD-100A-2.1	QAL-14	VT-3	NA	8.000		Integral Attachment Inspection
	Rigid Restraint					0.375		Keowee Unit 2
Class C								
Total D02.020 Items:		24						



CATEGORY D-B, Systems In Support Of ECC,  
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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Spring Type Supports ****								
D02.040.018	3-03A-H36	03A 1-0-2402A	QAL-14	VT-3	NA		6.000	File no. OSC-513 Page72
	Spring Hgr	OFD-121B-3.3					1.000	Prob. No. 3-03A-02
	Class C							EmergencyFeedwater System
D02.040.037	3-14B-H3	14B 1-0-2400A	QAL-14	VT-3	NA		36.000	File No. OS-530
	Spring Hgr	OFD-124A-3.1					0.406	Page No. 69.1
	Class C							Problem No. 3-14B-1; Low Pressure Service Water
Total D02.040 Items:		2						
Total D02 Items:		26						

CATEGORY F-A, Supports (Category A)

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

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.010.003	3-51A-H4A	51A 0-2479A	QAL-14	VT-3	NA	2.500		File No. OSC-1343
	Rigid Restraint	OFD-101A-3.4				0.375		Vol.B of C
Class A								Prob. No. 3-53-10 Page 59
								H.P.I. East Coolant Loop
Total F01.010 Items:		1						
F01.011.004	3-53-H2	53A 0-2478A	QAL-14	VT-3	NA	12.000		File No. OSC-1339
	Rigid Restraint	OFD-102A-3.1				0.250		Page 82
Class A								Problem No. 3-56-03; Spent Fuel Cooling
Total F01.011 Items:		1						
F01.012.006	3-53-H3	53A 0-2478A	QAL-14	VT-3	NA	12.000		File No. OSC-1339
	Hyd Snubber	OFD-102A-3.1				0.280		Page 82
Class A								Problem No. 3-56-03; Spent Fuel Cooling. Inspect with Item No. F01.050.003
Total F01.012 Items:		1						

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### Oconee 3

## Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.034 Class B	3-54A-SR13 Rigid Restraint	54A 3-0-2439A OFD-103A-3.1	QAL-14	VT-3	NA		8.000 0.000	File No. OSC-556 Page No. 64.1 Problem No. 3-54-03
F01.020.037 Class B	3-54A-SR21 Rigid Restraint	54A 2-0-2435B OFD-102A-3.1	QAL-14	VT-3	NA		10.000 0.280	File NO. OS-549 Page 78; Problem No. 3-53-01 L P Injection & Decay Heat Removal
F01.020.047 Class B	3-51B-H18 Rigid Restraint	51B 2-0-2436C OFD-101A-3.2	QAL-14	VT-3	NA		2.000 0.000	File No. OSC-538 Page 108 Prob. No. 51-1 sht.4 of 9
<b>Total F01.020 Items:</b>		<b>3</b>						
F01.021.003 Class B	3-14B-H10 Rigid Restraint	14B 0-2479A OFD-124B-3.2	QAL-14	VT-3	NA		6.000 0.750	File No. OSC-2056 Page No. 134 Problem No. 3-14B-14A;
F01.021.004 Class B	3-14B-H19D Rigid Restraint	14B 0-2479A OFD-124B-3.2	QAL-14	VT-3	NA		8.000 1.500	File No. OSC-1344-06 Page No. 6(1) 38 Problem No. 3-14B-09 System 14B This support can be found on hanger sketch 3-14B-0-2479A-H19. (6 hangers were combined to make one large gang hanger.)
F01.021.025 Class B	3-53B-R3 Rigid Restraint	53B 5-0-2436D OFD-102A-3.2	QAL-14	VT-3	NA		10.000 1.000	File No. OS-551 Page No. 61 Problem No. 3-53-04 System 53B
F01.021.028 Class B	3-54A-SR11 Rigid Restraint	54A 3-0-2444 OFD-103A-3.1	QAL-14	VT-3	NA		8.000 0.000	File No. OSC-556 Page No. 65.1 Problem No. 3-54-03

CATEGORY F-A, Supports (Category B)

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

Class 2 Weld Connections to Building Structure

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.021.034	3-51B-H9	51B 2-0-2436C	QAL-14	VT-3	NA	4.000		File No. OSC-538 Page 105
	Rigid Restraint	OFD-101A-3.1				0.000		Prob. No. 51-1 sht.1of 9
Class B								

Total F01.021 Items: 5

F01.022.004	3-03-H15A	03 0-2481A	QAL-14	VT-3	NA	24.000		File no. OSC-1335 Page 6(1)-72
	Spring Hgr	OFD-121B-3.3				1.500		Prob. No. 3-03-07
Class B								
F01.022.022	3-01A-H7B	01A 0-2480A	QAL-14	VT-3	CS	26.000		File no. OSC-1334
	Constant Support	OFD-122A-3.1				0.750		Prob. No. 3-01-07
Class B								
		0-2490A-2(S)						Main Steam System

Total F01.022 Items: 2



CATEGORY F-A, Supports (Category A)

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

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

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.030.041	3-14B-H5610	14B 0-2436C	QAL-14	VT-3	NA	10.000		File No. OSC-394, Page 76
	Rigid Restraint	OFD-121D-1.2				0.000		Problem No. 4-14-3,sht 1 of 9
Class C								Low Pressure Service Water
F01.030.045	2-WL-100A-K0031	WL KFD-100A-2.1	QAL-14	VT-3	NA	8.000		Calc.# KC-0111,Page 30
	Rigid Restraint					0.375		Problem # 0-WL-01 sht. 1 of 1
Class C								Keowee Unit 2
Total F01.030 Items:		10						
F01.031.004	3-03A-H180	03A 1-0-2439B	QAL-14	VT-3	NA	6.000		File No. OS-524
	Rigid Restraint	OFD-121D-3.1				0.125		Page No. 63
Class C				Sway Strut to				Problem No. 3-03A-07
								Emergency Feedwater System
F01.031.010	3-03A-SR17	03A 1-0-2401A	QAL-14	VT-3	NA	6.000		File No. OS-516
	Rigid Restraint	OFD-121D-3.1				1.000		Page No. 54
Class C								Problem No. 3-03A-04
								Emergency Feedwater Pump Discharge
F01.031.017	3-14B-SR7	14B 6-0-2438B	QAL-14	VT-3	NA	6.000		File No. OSC-529
	Rigid Restraint	OFD-121D-1.2				1.000		Page No. 69
Class C								Problem No. 3-14B-02
								Aux Service Water Piping
F01.031.018	3-14B-SR8	14B 6-0-2438B	QAL-14	VT-3	NA	6.000		File No. OSC-529
	Rigid Restraint	OFD-121D-1.2				1.000		Page No. 69
Class C								Problem No. 3-14B-02
								Aux Service Water Piping
Total F01.031 Items:		4						

CATEGORY F-A, Supports

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

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

Oconee 3  
Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.040.011	3-LPSW-PU-A	14B 0M 208-0027 OFD 124A-3.1	QAL-14	VT-3	NA	0.000 0.000		Low Press. Service Water Pump 3A.Support Legs & Pad.Class C
Class C								
F01.040.012	3-LPSW-STR-A	0M 240-0002 OFD 124A-3.1	QAL-14	VT-3	NA	0.000 0.000		Low Press. Service Water Strainer 3A.Support Legs.Class C
Class C								
Total F01.040 Items:		2						

### CATEGORY F-A, Supports

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## Spring Supports & Constant Load Supports

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### Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.001 Class C	3-03-SR3 Hyd Snubber	03 0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.406		File no. OSC-512 Page136.1 Prob. No. 3-03-01 Main Feedwater System.
F01.050.002 Class C	3-NPS-03-H28 Hyd Snubber	03A 0-2478 OFD-121D-3.1	QAL-14	VT-3	NA	3.000 0.000		File No.= OSC-1224-18, Page No. 39.2; Problem No.= 3-03A-14; Aux Service Water Piping
F01.050.003 Class A	3-53-H3 Hyd Snubber	53A 53-0-2478A OFD-102A-3.1	QAL-14	VT-3	NA	12.000 0.280		File No. OSC-1339 Page 82 Problem No. 3-56-03; Spent Fuel Cooling.
F01.050.004 Class B	3-56-H10 Hyd Snubber	56 0-2478A OFD-104A-3.1	QAL-14	VT-3	NA	8.000 0.000		File No. OSC-1339 Page No. 81 Problem No. 3-56-03 Spent Fuel Cooling.
F01.050.005 Class A	3-50-H12 Hyd Snubber	50 0-2479A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.000		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray
F01.050.006 Class A	3-50-H1A Hyd Snubber	50 0-2479A OFD-100A-3.2	QAL-14	VT-3	NA	10.000 0.000		Dwg. No.0-2491B-2A PZR Surge Line.
F01.050.007 Class A	3-50-H2A Hyd Snubber	50 0-2479A OFD-100A-3.2	QAL-14	VT-3	NA	10.000 0.000		Dwg. No.0-2491B-2A PZR Surge Line
F01.050.008 Class A	3-50-H3A Hyd Snubber	50 0-2479A OFD-100A-3.2	QAL-14	VT-3	NA	10.000 0.000		Dwg. No.0-2491B-2A PZR Surge Line



CATEGORY F-A, Supports

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Spring Supports & Constant Load Supports

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.009 Class A	3-51A-H2A Hyd Snubber	51A 0-2479A OFD-101A-3.4	QAL-14	VT-3	NA	2.500 0.154		File No. OSC-1343 Vol.B of C Prob. No. 3-53-10 Page 59 H.P.I. East Coolant Loop.
F01.050.010 Class B	3-03-H6B Hyd Snubber	03 0-2480A OFD-121B-3.3	QAL-14	VT-3	NA	20.000 0.000		File no. OSC-1335 Page 6(2)-71 Prob. No. 3-03-06 Main Feedwater System
F01.050.011 Class B	3-03-H7A Hyd Snubber	03 0-2480A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.237		File no. OSC-1335 Page 6(1)-72 Prob. No. 3-03-07 Main Feedwater System
F01.050.012 Class A	3-50-H10 Hyd Snubber	50 0-2480A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.000		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray
F01.050.013 Class A	3-50-H11 Hyd Snubber	50 0-2480A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.000		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray
F01.050.014 Class A	3-50-H8 Hyd Snubber	50 0-2480A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.000		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray
F01.050.015 Class A	3-50-H9 Hyd Snubber	50 0-2480A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.000		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray
F01.050.016 Class A	3-50-H1 Hyd Snubber	50 0-2481A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.000		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray
F01.050.017 Class A	3-50-H3 Hyd Snubber	50 0-2481A OFD-100A-3.2	QAL-14	VT-3	NA	2.500 0.154		File No. OSC-1343-06 Vol.A of C Prob.No. 3-53-09 Page 138 Low Pressure Inj. Supply to PZR Spray

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## Spring Supports & Constant Load Supports

### Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.018	3-57-H13A	57	0-2481A	QAL-14	VT-3	NA		4.000	File No.OSC-1351-06
Class A	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System.
F01.050.019	3-57-H15	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					1.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System.
F01.050.020	3-57-H16	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.021	3-57-H17	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.022	3-57-H20	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.023	3-57-H21	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.024	3-57-H23	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.025	3-57-H25	57	0-2481A	QAL-14	VT-3	NA		6.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.026	3-57-H7	57	0-2481A	QAL-14	VT-3	NA		8.000	File No.OSC-1351-06
Class C	Hyd Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01
									Dwg # 0-3RB-357001-01
									PZR Relief Valve System

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.027	3-57-H9	57	0-2481A	QAL-14	VT-3	NA		8.000	File No.OSC-1351-06
	Hyd Snubber		OFD-100A-3.2					0.216	Problem No.3-57-01
Class C									Dwg # 0-3RB-357001-01
									PZR Relief Valve System
F01.050.028	3-01A-H2A	01A	0-2481B	QAL-14	VT-3	NA		26.000	File no. OSC-1334
	Hyd Snubber		OFD-122A-3.1					0.322	Prob. No. 3-01-08
Class B			0-2490A-3(S)						Main Steam System
F01.050.029	3-01A-H2B	01A	0-2481B	QAL-14	VT-3	NA		26.000	File no. OSC-1334
	Hyd Snubber		OFD-122A-3.1					0.322	Prob. No. 3-01-07
Class B			0-2490A-2(S)						Main Steam System
F01.050.030	3-01A-H8A	01A	0-2481B	QAL-14	VT-3	NA		26.000	File no. OSC-1334
	Hyd Snubber		OFD-122A-3.1					0.322	Prob. No. 3-01-08
Class B			0-2490A-3(S)						Main Steam System
F01.050.031	3-01A-H8B	01A	0-2481B	QAL-14	VT-3	NA		26.000	File no. OSC-1334
	Hyd Snubber		OFD-122A-3.1					0.322	Prob. No. 3-01-07
Class B			0-2490A-2(S)						Main Steam System
F01.050.032	3-03A-SR103PO	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No.= OSC-526, Page No. 41; Problem No.=
	Hyd Snubber		OFD-121D-3.1					0.000	3-03A-09; Emergency Feedwater System
Class C									
F01.050.033	3-03A-SR104PO	03A	1-0-2400A	QAL-14	VT-3	NA		6.000	File No.= OSC-526, Page No. 41; Problem No.=
	Hyd Snubber		OFD-121D-3.1					0.000	3-03A-09; Emergency Feedwater System
Class C									
F01.050.034	3-03A-SR100PO	03A	1-0-2401A	QAL-14	VT-3	NA		6.000	File No. OS-519
	Hyd Snubber		OFD-121D-3.1					0.203	Page No. 55
Class C									Problem No. 3-03A-06
									Emergency Feedwater System
F01.050.035	3-03A-SR101PO	03A	1-0-2401A	QAL-14	VT-3	NA		6.000	File no. OSC-513 Page72
	Hyd Snubber		OFD-121B-3.3					0.000	Prob. No. 3-03A-02
Class C									EmergencyFeedwater System

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
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Spring Supports & Constant Load Supports

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
F01.050.036	3-03A-SR102PO	03A 1-0-2401A	QAL-14	VT-3	NA	6.000		File no. OSC-513 Page71
	Hyd Snubber	OFD-121B-3.3				0.000		Prob. No. 3-03A-02
Class C								EmergencyFeedwater System
F01.050.037	3-56-SR107	56 1-0-2437A	QAL-14	VT-3	NA	8.000		File No.= OSC-563, Page No. 92.2; Problem No.=
	Hyd Snubber	OFD-104A-3.1				0.000		3-56-02; Spent Fuel Cooling
Class C								
F01.050.038	3-56-SR109	56 1-0-2437A	QAL-14	VT-3	NA	8.000		File No.= OSC-563, Page No. 92.2; Problem No.=
	Hyd Snubber	OFD-104A-3.1				0.000		3-56-02; Spent Fuel Cooling
Class C								
F01.050.039	3-56-SR112	56 1-0-2437A	QAL-14	VT-3	NA	8.000		File No.= OSC-563, Page No. 92.2; Problem No.=
	Hyd Snubber	OFD-104A-3.1				0.000		3-56-02; Spent Fuel Cooling
Class C								
F01.050.040	3-56-SR116	56 1-0-2437A	QAL-14	VT-3	NA	8.000		File No OSC-563
	Hyd Snubber	OFD-104A-3.1				0.237		Page No. 93.2
Class C								Problem No. 3-56-02
								Spent Fuel Cooling
F01.050.041	3-56-SR119	56 1-0-2437A	QAL-14	VT-3	NA	6.000		File No.= OSC-563, Page No. 93.2; Problem No.=
	Hyd Snubber	OFD-104A-3.1				0.000		3-56-02; Spent Fuel Cooling
Class C								
F01.050.042	3-51A-SR14	51A 1-0-2444	QAL-14	VT-3	NA	4.000		File No. OSC-542
	Hyd Snubber	OFD-101A-3.3				0.000		Prob. No. 3-51-05 Page 42
Class B								H.P.I. Pump Discharge
F01.050.043	3-01A-R10	01A 1-1-0-2401B	QAL-14	VT-3	NA	12.000		File no. OS-507 Sht 1of2
	Hyd Snubber	OFD-122A-3.2				0.000		Prob. No. 3-01-09
Class B								Main Steam ByPass to Condenser
F01.050.044	3-01A-R12	01A 1-1-0-2401B	QAL-14	VT-3	NA	12.000		File no. OS-507 Sht 1of2
	Hyd Snubber	OFD-122A-3.2				0.280		Prob. No. 3-01-09
Class B								Main Steam ByPass to Condenser

CATEGORY F-A, Supports

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

Spring Supports & Constant Load Supports

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.045	3-01A-R9	01A 1-1-0-2401B	QAL-14	VT-3	NA	12.000		File no. 0S-507 Sht 1of2
	Hyd Snubber	OFD-122A-3.2				0.000		Prob. No. 3-01-09
Class B								Main Steam ByPass to Condenser
F01.050.046	3-53B-SR22	53B 2-0-2435B	QAL-14	VT-3	NA	14.000		File NO.= OS-549, Page 78; Problem No.= 3-53-01;
	Hyd Snubber	OFD-102A-3.1				0.000		L P Injection & Decay Heat Removal
Class B								
F01.050.047	3-54A-SR22	54A 3-0-2435B	QAL-14	VT-3	NA	8.000		File No.= OSC-554, Page No. 47.1; Problem No.=
	Hyd Snubber	OFD-103A-3.1				0.000		3-54-01; Reactor Bld Spray
Class B								
F01.050.048	3-54A-SR7	54A 3-0-2435B	QAL-14	VT-3	NA	8.000		File No. OSC-555
	Hyd Snubber	OFD-103A-3.1				1.000		Page No. 42.1
Class B								Problem No. 3-54-02
F01.050.049	3-54A-SR14	54A 3-0-2439A	QAL-14	VT-3	NA	8.000		File No.= OSC-556, Page No. 64.1; Problem
	Hyd Snubber	OFD-103A-3.1				0.000		No.=3-54-03
Class B								
F01.050.050	3-01A-R4	01A 3-803E245-2	QAL-14	VT-3	NA	12.000		File no. OSC-511 Page50
	Hyd Snubber	OFD-122A-3.1				0.000		Prob. No. 3-01-06
Class B								Main Steam System
F01.050.051	3-01A-R8	01A 4-0-2403D	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 1of3
	Hyd Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04
Class C								Main Steam to Emergency F.W. Pump
F01.050.052	3-01A-R12	01A 4-2-0-2403A	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 2of3
	Hyd Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04 Page 68
Class C								Main Steam to Emergency F.W. Pump
F01.050.053	3-01A-R11	01A 4-2-0-2403D	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 2of3
	Hyd Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04 Page 68
Class C								Main Steam to Emergency F.W. Pump

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.054	3-01A-R4	01A 4-2-0-2403D	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 2of3
	Hyd Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04 Page 68
Class C								Main Steam to Emergency F.W. Pump
F01.050.055	3-53B-SR32	53B 5-0-2435B	QAL-14	VT-3	NA	10.000		File No.= OS-550, Page No. 57; Problem No.=
	Hyd Snubber	OFD-102A-3.2				0.000		3-53-03; System 53B
Class B								
F01.050.056	3-53B-SR33	53B 5-0-2435B	QAL-14	VT-3	NA	10.000		File No.= OS-550, Page No. 57; Problem No.=
	Hyd Snubber	OFD-102A-3.2				0.000		3-53-03; System 53B
Class B								
F01.050.057	3-53B-SR38	53B 5-0-2435B	QAL-14	VT-3	NA	10.000		File No. OS-550
	Hyd Snubber	OFD-102A-3.2				0.000		Page No. 56
Class B								Problem No. 3-53-03;
								System 53B
F01.050.058	3-53B-SR39	53B 5-0-2435B	QAL-14	VT-3	NA	10.000		File No.= OS-550, Page No. 58; Problem No.=
	Hyd Snubber	OFD-102A-3.2				0.000		3-53-03; System 53B
Class B								
F01.050.059	3-13-SR1	13 7-0-2400A	QAL-14	VT-3	NA	12.000		File no. OSC-523 Page 40
	Hyd Snubber	OFD-133A-3.2				0.000		Prob. No. 13-7
Class C								Condenser Circulating Water Emerg. Disch.
F01.050.060	3-13-SR3	13 7-0-2400A	QAL-14	VT-3	NA	24.000		File noOSC-523 Page 40
	Hyd Snubber	OFD-133A-3.2				0.000		Prob. No. 13-7
Class C								Condenser Circulating Water Emerg. Disch.
F01.050.061	3-13-SR4	13 7-0-2400B	QAL-14	VT-3	NA	30.000		File noOSC-523 Page 40
	Hyd Snubber	OFD-133A-3.2				0.000		Prob. No. 13-7
Class C								Condenser Circulating Water Emerg. Disch.
F01.050.062	3-07A-DE027	07A 0-2400A	QAL-14	VT-3	NA	8.000		File No.= OS-522, Page No. 59.1; Problem No.=
	Mech Snubber	OFD-121A-3.8				0.000		3-07-03; System 07A
Class C								

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F01.050.063	3-03-DE001	03	0-2401A	QAL-14	VT-3	NA		24.000	File no. OSC-512 Page136.1
	Mech Snubber		OFD-121B-3.3					0.000	Prob. No. 3-03-01
Class C									Main Feedwater System
F01.050.064	3-03-SR1	03	0-2401A	QAL-14	VT-3	NA		24.000	File no. OSC-512 Page136.1
	Mech Snubber		OFD-121B-3.3					0.000	Prob. No. 3-03-01
Class C									Main Feedwater System
F01.050.065	3-03-SR10	03	0-2401A	QAL-14	VT-3	NA		24.000	File no. OSC-512 Page136.1
	Mech Snubber		OFD-121B-3.3					0.000	Prob. No. 3-03-01
Class C									Main Feedwater System
F01.050.066	3-03-SR11	03	0-2401A	QAL-14	VT-3	NA		24.000	File no. OSC-512 Page136.1
	Mech Snubber		OFD-121B-3.3					0.000	Prob. No. 3-03-01
Class C									Main Feedwater System
F01.050.067	3-03-SR2	03	0-2401A	QAL-14	VT-3	NA		24.000	File no. OSC-512 Page136.1
	Mech Snubber		OFD-121B-3.3					0.435	Prob. No. 3-03-01
Class C									Main Feedwater System
F01.050.068	3-03A-DE054	03A	0-2401A	QAL-14	VT-3	NA		6.000	File no. OSC-519 Page55
	Mech Snubber		OFD-121B-3.3					0.000	Prob. No. 3-03A-06
Class C									EmergencyFeedwater System
F01.050.069	3-02A-DE016	01A	0-2403A	QAL-14	VT-3	NA		6.000	File no. OSC-510 Sht 2of3
	Mech Snubber		OFD-122A-3.4					0.000	Prob. No. 3-01A-04 Page 68
Class C									Main Steam to Emergency F.W. Pump
F01.050.070	3-03A-DE053	03A	0-2402A	QAL-14	VT-3	NA		6.000	File No.= OS-519, Page No. 55; Problem No.=
	Mech Snubber		OFD-121D-3.1					0.000	3-03A-06; Emergency Feedwater System
Class C									
F01.050.071	3-53B-DE013	53B	0-2435B	QAL-14	VT-3	NA		14.000	File NO. OS-549
	Mech Snubber		OFD-102A-3.1					0.000	Page 78
Class B									Problem No. 3-53-01
									L P Injection & Decay Heat Removal

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F01.050.072	3-56-DE005	56	0-2437A	QAL-14	VT-3	NA		8.000	File No.= OSC-563, Page No. 93.2; Problem No.= 3-56-02; Spent Fuel Cooling
Class C	Mech Snubber		OFD-104A-3.1					0.000	
F01.050.073	3-56-DE007	56	0-2437A	QAL-14	VT-3	NA		8.000	File No.= OSC-563, Page No. 92.2; Problem No.= 3-56-02; Spent Fuel Cooling
Class C	Mech Snubber		OFD-104A-3.1					0.000	
F01.050.074	3-53B-DE008	53B	0-2438B	QAL-14	VT-3	NA		8.000	File No.= OS-551, Page 60.2; Problem No.3-53-04; System 53
Class B	Mech Snubber		OFD-102A-3.1					0.000	
F01.050.075	3-56-DE008	56	0-2438B	QAL-14	VT-3	NA		8.000	File No.= OSC-563, Page No. 94.6; Problem No.= 3-56-02; Spent Fuel Cooling
Class C	Mech Snubber		OFD-104A-3.1					0.000	
F01.050.076	3-03-H6034	03A	0-2480A	QAL-14	VT-3	NA		6.000	File No.= OSC-1224-18, Page No. 38.2; Problem No.= 3-03A-14; Aux Service Water Piping
Class C	Mech Snubber		OFD-121D-3.1					0.000	
F01.050.077	3-03-H6036	03A	0-2480A	QAL-14	VT-3	NA		6.000	File No.= OSC-1224-18, Page No. 38.2; Problem No.= 3-03A-14; Aux Service Water Piping
Class C	Mech Snubber		OFD-121D-3.1					0.000	
F01.050.078	3-03-H6038	03A	0-2480A	QAL-14	VT-3	NA		6.000	File No.= OSC-1224-18, Page No. 40.2; Problem No.= 3-03A-14; Aux Service Water Piping
Class C	Mech Snubber		OFD-121D-3.1					0.000	
F01.050.079	3-03-H6187	03A	0-2480A	QAL-14	VT-3	NA		6.000	File No.= OSC-1224-18, Page No. 40.2; Problem No.= 3-03A-14; Aux Service Water Piping
Class C	Mech Snubber		OFD-121D-3.1					0.000	
F01.050.080	3-57-NWIZ	57	0-2480A	QAL-14	VT-3	NA		12.000	File No.OSC-1351-06
Class C	Mech Snubber		OFD-100A-3.2					0.000	Problem No.3-57-01 Dwg # 0-3RB-357001-01 PZR Relief Valve System



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F01.050.081	3-50-H7	50 0-2481A	QAL-14	VT-3	NA	2.500		File No. OSC-1343-06 Vol.A of C
	Mech Snubber	OFD-100A-3.2				0.500		Prob.No. 3-53-09 Page 138
Class A								Low Pressure Inj. Supply to PZR Spray
F01.050.082	3-03A-H204	03A 1-0-2400A	QAL-14	VT-3	NA	6.000		File No.= OSC-1209, Page No. 28; Problem No.=
	Mech Snubber	OFD-121D-3.1				0.000		3-03A-12; Emergency Feedwater System
Class C								
F01.050.083	3-03A-SR33	03A 1-0-2401A	QAL-14	VT-3	NA	6.000		File No. OS-519
	Mech Snubber	OFD-121D-3.1				0.000		Page No. 55
Class C								Problem No. 3-03A-06
								Emergency Feedwater System. Inspect with Item
								No. F01.032.010
F01.050.084	3-51A-H308	51A 1-0-2439A	QAL-14	VT-3	NA	4.000		File No. OSC-541
	Mech Snubber	OFD-101A-3.4				0.000		Prob. No. 3-51-04 Page 66
Class B								H.P.I.to Reactor Coolant Loops "A" &"B"
F01.050.085	3-51A-H309	51A 1-0-2439A	QAL-14	VT-3	NA	4.000		File No. OSC-541
	Mech Snubber	OFD-101A-3.4				0.000		Prob. No. 3-51-04 Page 66
Class B								H.P.I.to Reactor Coolant Loops "A" &"B"
F01.050.086	3-51A-H294	51A 1-0-2439C	QAL-14	VT-3	NA	4.000		File No. OSC-542
	Mech Snubber	OFD-101A-3.4				0.000		Prob. No. 3-51-05 Page 44.1
Class B								H.P.I.Crossover to Reactor Coolant Inj. Loops
								"A"&"B"
F01.050.087	3-51A-H304	51A 1-0-2439C	QAL-14	VT-3	NA	4.000		File No. OSC-541
	Mech Snubber	OFD-101A-3.4				0.000		Prob. No. 3-51-04 Page 66
Class B								H.P.I.to Reactor Coolant Loops "A" &"B"
F01.050.088	3-51A-H318	51A 1-0-2444	QAL-14	VT-3	NA	4.000		File No. OSC-541
	Mech Snubber	OFD-101A-3.4				0.000		Prob. No. 3-51-04 Page 67
Class B								H.P.I.Crossover to Reactor Coolant Loops "A" &"B"

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F01.050.089	3-01A-R13	01A 1-1-0-2401B	QAL-14	VT-3	NA	12.000		File no. 0S-507 Sht 1of2
	Mech Snubber	OFD-122A-3.2				0.000		Prob. No. 3-01-09
Class B								Main Steam ByPass to Condenser
F01.050.090	3-53B-SR46	53B 2-0-2435D	QAL-14	VT-3	NA	6.000		File No. OSC-539
	Mech Snubber	OFD-101A-3.3				0.000		Prob. No. 3-51-2 Page 145
Class B								H.P.I. Pumps 3A,3B,&3C Suction Header
F01.050.091	3-54A-R1000	54A 3-0-2435B	QAL-14	VT-3	NA	8.000		File No.= OSC-555, Page No. 42.1; Problem No.=
	Mech Snubber	OFD-103A-3.1				0.000		3-54-02
Class B								
F01.050.092	3-54A-R1001	54A 3-0-2435B	QAL-14	VT-3	NA	8.000		File No.= OSC-554, Page No. 47.1; Problem No.=
	Mech Snubber	OFD-103A-3.1				0.000		3-54-01; Reactor Bld Spray
Class B								
F01.050.093	3-54A-SR23	54A 3-0-2435B	QAL-14	VT-3	NA	8.000		File No.= OSC-554, Page No. 47.1; Problem No.=
	Mech Snubber	OFD-103A-3.1				0.500		3-54-01; Reactor Bld Spray
Class B								
F01.050.094	3-51B-H62	51B 3-0-2436G	QAL-14	VT-3	NA	4.000		File No. OSC-539
	Mech Snubber	OFD-101A-3.2				1.062		Prob. No. 3-51-2 Page 145
Class B								H.P.I. Pumps 3A,3B,&3C Suction Header
F01.050.095	3-54A-SR12	54A 3-0-2438A	QAL-14	VT-3	NA	8.000		File No.= OSC-556, Page No. 65.1; Problem No.=
	Mech Snubber	OFD-103A-3.1				0.500		3-54-03
Class B								
F01.050.096	3-01A-R10	01A 4-0-2403D	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 1of3
	Mech Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04
Class C								Main Steam to Emergency F.W. Pump
F01.050.097	3-01A-R6	01A 4-0-2403D	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 1of3
	Mech Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04
Class C								Main Steam to Emergency F.W. Pump

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.098	3-01A-R9	01A 4-0-2403D	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 1of3
	Mech Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04
Class C								Main Steam to Emergency F.W. Pump
F01.050.099	3-01A-R3	01A 4-2-0-2403E	QAL-14	VT-3	NA	6.000		File no. OSC-510 Sht 2of3
	Mech Snubber	OFD-122A-3.4				0.000		Prob. No. 3-01A-04 Page 68
Class C								Main Steam to Emergency F.W. Pump
F01.050.100	3-07A-H70	07A 6-0-2400A	QAL-14	VT-3	NA	20.000		File No.= OSC-1211, Page No. 27; Problem No.=
	Mech Snubber	OFD-121A-3.8				0.000		3-07-05; System 07A
Class C								
F01.050.101	3-07A-H71	07A 6-0-2400A	QAL-14	VT-3	NA	20.000		File No.= OSC-1211, Page No. 27; Problem No.=
	Mech Snubber	OFD-121A-3.8				0.000		3-07-05; System 07A
Class C								
F01.050.102	3-07A-H72	07A 6-0-2400A	QAL-14	VT-3	NA	24.000		File No.= OSC-1211, Page No. 28; Problem No.=
	Mech Snubber	OFD-121A-3.8				0.000		3-07-05; System 07A
Class C								
F01.050.103	3-07A-H74	07A 6-0-2400A	QAL-14	VT-3	NA	20.000		File No.= OSC-1211, Page No. 28; Problem No.=
	Mech Snubber	OFD-121A-3.8				0.000		3-07-05; System 07A
Class C								
F01.050.104	3-07A-DE031	07A 6-0-2402A	QAL-14	VT-3	NA	24.000		File no. OSC-521 Page 120
	Mech Snubber	OFD-121A-3.7				0.000		Prob. No. 3-07A-01
Class C								Condensate System
F01.050.105	3-13-DE002	13 7-0-2400B	QAL-14	VT-3	NA	30.000		File No. OSC-523 Page 40
	Mech Snubber	OFD-133A-3.2				0.000		Prob. No. 13-7
Class C								Condenser Circulating Water Emerg. Disch.
F01.050.106	3-53B-SR31	53B 7-0-2436C	QAL-14	VT-3	NA	14.000		File No.= OS-539, Page 143; Problem No.3-51-2;
	Mech Snubber	OFD-102A-3.1				0.000		
Class B								

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F01.050.107	3-50-RCPM-3A1-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-1011-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.108	3-50-RCPM-3A1-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-1011-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.008.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.109	3-50-RCPM-3A1-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-1011-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.009.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.110	3-50-RCPM-3A2-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-0991, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.111	3-50-RCPM-3A2-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-0991, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.112	3-50-RCPM-3A2-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-1011-01-0002, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.010.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.113	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 0-O96-1575. Inspect with F01.012.011.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.114	3-50-RCPM-3B1-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-1011-01-0003, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						
F01.050.115	3-50-RCPM-3B1-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000		Calclaton No. OSC-0991, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000		
Class A			OFD-100A-3.3						

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F01.050.116	3-50-RCPM-3B2-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000	Calclaton No. OSC-1011-01-0004, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000	
Class A			OFD-100A-3.3					
F01.050.117	3-50-RCPM-3B2-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000	Calclaton No. OSC-1011-01-0004, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.012.
	Mech Snubber		OFD-100A-3.1				0.000	
Class A			OFD-100A-3.3					
F01.050.118	3-50-RCPM-3B2-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000	Calclaton No. OSC-1011-01-0004, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1				0.000	
Class A			OFD-100A-3.3					
F01.050.119	3-01A-R6	01A	0-2401B	QAL-14	VT-3	CS	36.000	Struc. calc # OSC-1000; Prob. # OS 506/3-01A; Data point 100
	Hyd Snubber		OFD-122A-3.1				0.000	
Class B								
<b>Total F01.050 Items:</b>		<b>119</b>						
<b>Total F01 Items:</b>		<b>148</b>						

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

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G09.001.006	3-53B-34-36A	53B 3-53B-34	NDE-35	PT	SS	12.000		
	Circumferential	OFD-102A-3.1				0.250		
Class B	Term end	OFD-102A-3.2			Elbow to Flange			
G09.001.011	3-53B-37-51	53B 3-53B-37	NDE-35	PT	SS	8.000		
	Circumferential	OFD-102A-3.2				0.250		
Class B	Term end				Reducer to Flange			
G09.001.014	3-53B-44-9	53B 3-53B-44	NDE-35	PT	SS	12.000		
	Circumferential	OFD-102A-3.1				0.180		
Class B					Pipe to Elbow			
G09.001.015	3-53B-45-40	53B 3-53B-45	NDE-35	PT	SS	8.000		
	Circumferential	OFD-102A-3.2				0.250		
Class B					Pipe to Reducer			
G09.001.026	3-54A-11-27	54A 3-54A-11	NDE-35	PT	SS	8.000		
	Circumferential	OFD-103A-3.1				0.250		
Class B					Elbow to Pipe			

Total G09.001 Items: 5  
Total G09 Items: 5

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Class 1 RTE Mounting Bosses

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G10.001.007	3-PIA1-9	50	ISI-OCN3-007	NDE-35	PT	CS-Inconel	8.750	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
	Branch		OFD-100A-3.1				2.250	
Class A	Dissimilar				Nozzle RTE Nozzle to Pipe			
G10.001.010	3-PIB2-9	50	ISI-OCN3-010	NDE-35	PT	CS-Inconel	8.750	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
	Branch		OFD-100A-3.1				2.250	
Class A	Dissimilar				Pipe to Nozzle RTE Nozzle			
Total G10.001 Items:		2						
Total G10 Items:		2						

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## Reactor Coolant Pump 3A2 and 3B1 Alternate Examination

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G11.001.001	3RCP-3A2	50 OM-1201-1217 OFD-100A-3.1	QAL-13	VT-1	SS		0.000 0.000	Inspect Flg. Joint, Studs and Adj. area Per Req. for Relief ONS-011. Ref. Section 7 Paragraph 7.1.11 of the ISI Plan - Volume 1. RCP 3A2 Main Flange ; Each refueling outage the flange joint and surrounding area will be inspected for any accumulation of boron or stud degradation. See 2nd interval request for relief ONS-010.( Note: when item# B06.190.002 is inspected then this inspection will not be required.
Class A								
G11.001.002	3RCP-3B1	50 OM-1201-1217 OFD-100A-3.1	QAL-13	VT-1	SS		0.000 0.000	Inspect Flg. Joint, Studs and Adj. area Per Req. for Relief ONS-011. Ref. Section 7 Paragraph 7.1.11 of the ISI Plan - Volume 1. RCP 3B1 Main Flange ; Each refueling outage the flange joint and surrounding area will be inspected for any accumulation of boron or stud degradation. See 2nd interval request for relief ONS-010.( Note: when item# B06.190.003 is inspected then this inspection will not be required.
Class A								
<b>Total G11.001 Items:</b>		<b>2</b>						
<b>Total G11 Items:</b>		<b>2</b>						



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HPI System Upgrade

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Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G12.001.004	3-51B-30-73	51B 3-51B-30	NDE-35	PT	SS		4.000	
	Circumferential	OFD-101A-3.2					0.120	
	Class B				Reducer to Valve 3HP-23			
Total G12.001 Items:		1						
Total G12 Items:		1						

## **5.0 Results Of Inspections Performed**

The results of each examination shown in the final ISI Plan (Section 4.0 of this report) are included in this section. The completion date and status for each examination are shown. Limited examinations are described in further detail in Section 5.2. All examinations revealing reportable indications are described in further detail in Section 6.

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

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

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B05.130.001	3-53A-18-11	53A	04/24/2000	REC	75.00%	Y	Y	Indication # 1 was determined to be a geometrical reflector due to counterbore. Previous UT data and radiographs support this determination. We were unable to duplicate reflector with 60 degrees RL. Request For Relief # 00-003.
B05.130.001A	3-53A-18-11	53A	04/24/2000	CLR	---	N	N	
B05.130.002	3-PHA-17	50	04/24/2000	REC	75.00%	Y	Y	Indication # 1 was determined to be geometrical reflector due to counterbore. Past data (RT Radiograph) supports this. Request For Relief # 00-003.
B05.130.002A	3-PHA-17	50	04/24/2000	CLR	---	N	N	
B06.010.010	3RPV-26-209-10	50	04/27/2000	CLR	---	N	N	
B06.010.011	3RPV-26-209-11	50	04/27/2000	CLR	---	N	N	
B06.010.012	3RPV-26-209-12	50	04/27/2000	CLR	---	N	N	
B06.010.013	3RPV-26-209-13	50	04/27/2000	CLR	---	N	N	
B06.010.014	3RPV-26-209-14	50	04/27/2000	CLR	---	N	N	
B06.010.015	3RPV-26-209-15	50	04/27/2000	CLR	---	N	N	
B06.010.016	3RPV-26-209-16	50	04/27/2000	CLR	---	N	N	
B06.010.017	3RPV-26-209-17	50	04/27/2000	CLR	---	N	N	
B06.010.018	3RPV-26-209-18	50	04/27/2000	CLR	---	N	N	
B06.010.019	3RPV-26-209-19	50	04/27/2000	CLR	---	N	N	
B06.010.020	3RPV-26-209-20	50	04/27/2000	CLR	---	N	N	
B06.010.021	3RPV-26-209-21	50	04/27/2000	CLR	---	N	N	
B06.010.022	3RPV-26-209-22	50	04/27/2000	CLR	---	N	N	
B06.010.023	3RPV-26-209-23	50	04/27/2000	CLR	---	N	N	
B06.010.024	3RPV-26-209-24	50	04/27/2000	CLR	---	N	N	
B06.030.010	3RPV-25-209-10	50	04/27/2000	CLR	---	N	N	
B06.030.010A	3RPV-25-209-10	50	04/27/2000	CLR	---	N	N	
B06.030.011	3RPV-25-209-11	50	04/27/2000	CLR	---	N	N	
B06.030.011A	3RPV-25-209-11	50	04/27/2000	CLR	---	N	N	
B06.030.012	3RPV-25-209-12	50	04/27/2000	CLR	---	N	N	
B06.030.012A	3RPV-25-209-12	50	04/27/2000	CLR	---	N	N	
B06.030.013	3RPV-25-209-13	50	04/27/2000	CLR	---	N	N	
B06.030.013A	3RPV-25-209-13	50	04/27/2000	CLR	---	N	N	
B06.030.014	3RPV-25-209-14	50	04/27/2000	CLR	---	N	N	
B06.030.014A	3RPV-25-209-14	50	04/27/2000	CLR	---	N	N	
B06.030.015	3RPV-25-209-15	50	04/27/2000	CLR	---	N	N	
B06.030.015A	3RPV-25-209-15	50	04/27/2000	CLR	---	N	N	

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B06.030.016	3RPV-25-209-16	50	04/27/2000	CLR	---	N	N	
B06.030.016A	3RPV-25-209-16	50	04/27/2000	CLR	---	N	N	
B06.030.017	3RPV-25-209-17	50	04/27/2000	CLR	---	N	N	
B06.030.017A	3RPV-25-209-17	50	04/27/2000	CLR	---	N	N	
B06.030.018	3RPV-25-209-18	50	04/27/2000	CLR	---	N	N	
B06.030.018A	3RPV-25-209-18	50	04/27/2000	CLR	---	N	N	
B06.030.019	3RPV-25-209-19	50	04/27/2000	CLR	---	N	N	
B06.030.019A	3RPV-25-209-19	50	04/27/2000	CLR	---	N	N	
B06.030.020	3RPV-25-209-20	50	04/27/2000	CLR	---	N	N	
B06.030.020A	3RPV-25-209-20	50	04/27/2000	CLR	---	N	N	
B06.030.021	3RPV-25-209-21	50	04/27/2000	CLR	---	N	N	
B06.030.021A	3RPV-25-209-21	50	04/27/2000	CLR	---	N	N	
B06.030.022	3RPV-25-209-22	50	04/27/2000	CLR	---	N	N	
B06.030.022A	3RPV-25-209-22	50	04/27/2000	CLR	---	N	N	
B06.030.023	3RPV-25-209-23	50	04/27/2000	CLR	---	N	N	
B06.030.023A	3RPV-25-209-23	50	04/27/2000	CLR	---	N	N	
B06.030.024	3RPV-25-209-24	50	04/27/2000	CLR	---	N	N	
B06.030.024A	3RPV-25-209-24	50	04/27/2000	CLR	---	N	N	
B06.050.001A	3RPV-WASH-BUSH	50	04/28/2000	CLR	---	N	N	
B07.080.001	3-RPV-CRD-BOLTS	50	04/27/2000	CLR	---	N	N	Housing bolts were inspected on CRD# 21.
B07.080.002	3-RPV-CRD-RINGS	50	04/27/2000	CLR	---	N	N	Housing Rings were inspected on CRD# 21.
B09.011.002	3-PHA-12	50	04/27/2000	CLR	---	N	N	
B09.011.002A	3-PHA-12	50	04/27/2000	CLR	---	N	N	
B09.011.017	3-PDA1-1	50	05/01/2000	CLR	62.50%	N	Y	Request For Relief # 00-003.
B09.011.017A	3-PDA1-1	50	04/30/2000	CLR	---	N	N	
B09.011.025	3-PSL-1	50	05/02/2000	CLR	---	N	N	
B09.011.025A	3-PSL-1	50	05/02/2000	CLR	---	N	N	
B09.011.034	3-PSP-3	50	04/23/2000	CLR	---	N	N	
B09.011.034A	3-PSP-3	50	04/20/2000	CLR	---	N	N	
B09.011.046	3-53A-16-5	53A	04/28/2000	CLR	---	N	N	
B09.011.046A	3-53A-16-5	53A	04/28/2000	CLR	---	N	N	
B09.011.047	3-53A-17-12	53A	04/22/2000	CLR	---	N	N	
B09.011.047A	3-53A-17-12	53A	04/22/2000	CLR	---	N	N	
B09.021.008	3-PSP-11	50	04/20/2000	CLR	---	N	N	
B09.021.012	3-PSP-24	50	04/20/2000	CLR	---	N	N	
B09.021.019	3-51A-140-1	51A	04/23/2000	CLR	---	N	N	

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B09.021.020	3-51A-140-29	51A	04/23/2000	CLR	---	N	N	
B09.021.034	3HP-243-15	51A	04/23/2000	CLR	---	N	N	
B09.021.051	3-51A-69-26A	51A	05/01/2000	CLR	---	N	N	
B09.021.052	3-51A-69-29A	51A	05/01/2000	CLR	---	N	N	
B09.021.066	3-PSP-9	50	04/20/2000	CLR	---	N	N	
B09.021.067	3-PSP-18	50	04/29/2000	CLR	---	N	N	
B09.021.068	3-PSP-21	50	04/20/2000	CLR	---	N	N	
B09.031.002	3-PHA-16	50	04/24/2000	CLR	---	N	N	
B09.031.002A	3-PHA-16	50	04/24/2000	CLR	---	N	N	
B09.032.007	3-PDB1-12	50	04/20/2000	CLR	---	N	N	
B09.040.003	3-50-152-28	50	04/23/2000	CLR	---	N	N	
B13.010.001	3RPV-INT SUR	50	04/26/2000	CLR	---	N	N	
C01.020.003	3LPCA-HD-SHL		02/28/2000	REC	---	Y	N	Indications #1 & #2 are root geometry, confirmed with 70 degrees shear & WSY-70. Indications #3 & #4 are baffle/divider plates (180 degrees apart). This was confirmed by drawings.
C03.010.001	3SGA-WG84-YZ	03	04/22/2000	CLR	---	N	N	
C03.010.002	3SGA-WG84-ZY	03	04/22/2000	CLR	---	N	N	
C03.020.001	3-01A-H11B	01A	04/30/2000	CLR	---	N	N	
C03.020.003	3-01A-H1B	01A	05/03/2000	CLR	---	N	N	
C03.020.009	3-01A-H7B	01A	04/22/2000	CLR	---	N	N	
C03.020.012	3-03-H15A	03	04/30/2000	CLR	---	N	N	
C03.020.014	3-14B-H10	14B	04/29/2000	CLR	---	N	N	
C03.020.016	3-14B-H19D	14B	04/30/2000	CLR	---	N	N	
C03.020.029	3-53B-R3	53B	02/28/2000	CLR	---	N	N	
C03.020.039	3SGA-WG87-YZ	03	04/22/2000	CLR	---	N	N	
C03.020.040	3SGA-WG87-ZY	03	04/22/2000	CLR	---	N	N	
C03.020.049	3-01A-R6	01A	04/26/2000	CLR	---	N	N	
C05.011.008	3LP-132-6	53A	02/16/2000	CLR	---	N	N	
C05.011.008A	3LP-132-6	53A	02/15/2000	CLR	---	N	N	
C05.021.007	3-51A-118-19	51A	02/17/2000	CLR	---	N	N	
C05.021.007A	3-51A-118-19	51A	02/17/2000	CLR	---	N	N	
C05.021.013	3-51A-119-13	51A	02/15/2000	CLR	---	N	N	
C05.021.013A	3-51A-119-13	51A	02/14/2000	CLR	---	N	N	
C05.021.017	3-51A-120-16	51A	02/15/2000	CLR	---	N	N	
C05.021.017A	3-51A-120-16	51A	02/14/2000	CLR	---	N	N	
C05.021.032	3-51A-50-69	51A	02/21/2000	CLR	---	N	N	
C05.021.032A	3-51A-50-69	51A	02/21/2000	CLR	---	N	N	

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C05.021.040	3-51A-52-46	51A	02/21/2000	CLR	---	N	N	
C05.021.040A	3-51A-52-46	51A	02/21/2000	CLR	---	N	N	
C05.021.043	3-51A-59-12C	51A	02/16/2000	CLR	---	N	N	
C05.021.043A	3-51A-59-12C	51A	02/15/2000	CLR	---	N	N	
C05.021.050	3-51A-66-40	51A	04/26/2000	CLR	62.49%	N	Y	Request For Relief # 00-003.
C05.021.050A	3-51A-66-40	51A	04/26/2000	CLR	---	N	N	
C05.021.054	3-51A-67-28	51A	05/02/2000	CLR	---	N	N	
C05.021.054A	3-51A-67-28	51A	05/01/2000	CLR	---	N	N	
C05.021.064	3-51A-87-54A	51A	04/24/2000	CLR	62.50%	N	Y	Request For Relief # 00-003.
C05.021.064A	3-51A-87-54A	51A	04/24/2000	CLR	---	N	N	
C05.021.074	3-51A-118-12	51A	02/21/2000	CLR	---	N	N	
C05.021.074A	3-51A-118-12	51A	02/21/2000	CLR	---	N	N	
C05.021.078	3-51A-120-25	51A	02/15/2000	CLR	---	N	N	
C05.021.078A	3-51A-120-25	51A	02/14/2000	CLR	---	N	N	
C05.021.089	3HP-312-V2	51A	02/16/2000	CLR	---	N	N	
C05.021.089A	3HP-312-V2	51A	02/15/2000	CLR	---	N	N	
C05.021.093	3-51A-67-60	51A	05/02/2000	CLR	---	N	N	
C05.021.093A	3-51A-67-60	51A	05/01/2000	CLR	---	N	N	
C05.021.099	3-51A-117-1	51A	02/23/2000	CLR	---	N	N	
C05.021.099A	3-51A-117-1	51A	02/22/2000	CLR	---	N	N	
C05.021.100	3-51A-117-15	51A	02/24/2000	CLR	---	N	N	
C05.021.100A	3-51A-117-15	51A	02/22/2000	CLR	---	N	N	
C05.021.101	3-51A-117-3A	51A	02/23/2000	CLR	---	N	N	
C05.021.101A	3-51A-117-3A	51A	02/22/2000	CLR	---	N	N	
C05.021.102	3-51A-117-9	51A	02/24/2000	CLR	---	N	N	
C05.021.102A	3-51A-117-9	51A	02/22/2000	CLR	---	N	N	
C05.021.103	3-51A-53-11	51A	02/24/2000	CLR	---	N	N	
C05.021.103A	3-51A-53-11	51A	02/22/2000	CLR	---	N	N	
C05.021.104	3-51A-53-26	51A	02/21/2000	CLR	---	N	N	
C05.021.104A	3-51A-53-26	51A	02/21/2000	CLR	---	N	N	
C05.021.105	3-51A-53-4	51A	02/24/2000	CLR	---	N	N	
C05.021.105A	3-51A-53-4	51A	02/22/2000	CLR	---	N	N	
C05.021.106	3-51A-53-9	51A	02/21/2000	CLR	---	N	N	
C05.021.106A	3-51A-53-9	51A	02/21/2000	CLR	---	N	N	
C05.021.107	3-51A-58-12	51A	02/15/2000	CLR	---	N	N	
C05.021.107A	3-51A-58-12	51A	02/14/2000	CLR	---	N	N	

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C05.021.108	3-51A-58-19A	51A	02/15/2000	CLR	---	N	N	
C05.021.108A	3-51A-58-19A	51A	02/14/2000	CLR	---	N	N	
C05.030.005	3-51B-57-25A	51B	04/24/2000	CLR	---	N	N	
C05.051.008	3-01A-17-4	01A	05/04/2000	REC	---	Y	N	Indications #1 & #2 are geometrical reflectors of backing ring. We were unable to maintain amplitude when skewing transducer. 70 degrees shear produced less than 50% at same gain setting. WSY-70 bi-modal could not duplicate reflectors. Review of past radiographs support this determination.
C05.051.008A	3-01A-17-4	01A	05/04/2000	CLR	---	N	N	
C05.051.025	3-03A-17-42	03A	02/22/2000	CLR	---	N	N	
C05.051.025A	3-03A-17-42	03A	02/15/2000	CLR	---	N	N	
C05.051.030	3-14B-116-56	14B	02/22/2000	CLR	---	N	N	
C05.051.030A	3-14B-116-56	14B	02/15/2000	CLR	---	N	N	
C05.051.032	3LPS-521-2	14B	02/22/2000	CLR	---	N	N	
C05.051.032A	3LPS-521-2	14B	02/15/2000	CLR	---	N	N	
C05.081.003	3MS-12B-A-1	01A	05/02/2000	CLR	---	N	N	
D02.020.020	3-03A-H118	03A	03/27/2000	CLR	---	N	N	
D02.020.021	3-03A-H120	03A	03/21/2000	CLR	---	N	N	
D02.020.022	3-03A-H125	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.025	3-03A-H130	03A	03/21/2000	CLR	---	N	N	
D02.020.029	3-03A-H147	03A	03/27/2000	CLR	---	N	N	
D02.020.030	3-03A-H149	03A	03/27/2000	CLR	---	N	N	
D02.020.032	3-03A-H175	03A	03/27/2000	REP	---	N	N	The discrepancies found were reviewed by civil engineering and the support was found to be inoperable. Discrepancies that were found were reviewed by civil engineering and were determined not to be service induced. PIP O-00-01376 was written to document the problem. Minor Mod ONOE-15019 was written to remove the saddle and will eliminate this discrepancy.
D02.020.033	3-03A-H194	03A	04/05/2000	CLR	---	N	N	
D02.020.036	3-03A-H5	03A	03/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.040	3-03A-SR129	03A	03/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.045	3-03A-SR185	03A	03/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.046	3-03A-SR36	03A	03/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering

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								and the support was found to be acceptable for service. Work Order 98263042 was written to correct problems.
D02.020.051	3-03A-H180	03A	03/30/2000	CLR	---	N	N	
D02.020.054	3-03A-H207	03A	03/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98263052 was written to correct problems.
D02.020.058	3-03A-SR113	03A	03/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.063	3-03A-SR122	03A	03/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.072	3-03A-SR146	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98263060 was written to correct problems.
D02.020.073	3-03A-SR148	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.076	3-03A-SR17	03A	04/05/2000	CLR	---	N	N	
D02.020.086	3-03A-SR55	03A	03/22/2000	CLR	---	N	N	
D02.020.137	3-14B-SR7	14B	03/29/2000	CLR	---	N	N	
D02.020.138	3-14B-SR8	14B	03/29/2000	CLR	---	N	N	
D02.020.141	3-14B-WM-7002	14B	03/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.148	2-WL-100A-K0031	WL	03/15/2000	CLR	---	N	N	
D02.040.018	3-03A-H36	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.040.037	3-14B-H3	14B	03/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.010.003	3-51A-H4A	51A	04/19/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.011.004	3-53-H2	53A	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98270666 was written to correct problems.
F01.012.006	3-53-H3	53A	05/07/2000	CLR	---	N	N	
F01.020.034	3-54A-SR13	54A	03/30/2000	CLR	---	N	N	
F01.020.037	3-54A-SR21	54A	03/29/2000	CLR	---	N	N	
F01.020.047	3-51B-H18	51B	03/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.021.003	3-14B-H10	14B	04/27/2000	CLR	---	N	N	



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F01.021.004	3-14B-H19D	14B	05/04/2000	REP	---	N	N	The discrepancies found were reviewed by civil engineering and the support was found to be inoperable. The discrepancies found were determined not to be service induced. PIP O-00-01756 was written to document the problems. Minor Mod OE-15071 was implemented to restore these supports to an operable status. Since the degradation was not service induced, additional inspections per Code Case 491, subparagraph 2430 are not required.
F01.021.025	3-53B-R3	53B	04/05/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98263091 was written to correct problems.
F01.021.028	3-54A-SR11	54A	03/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98263064 was written to correct problems.
F01.021.034	3-51B-H9	51B	04/04/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98268174 was written to correct problems.
F01.022.004	3-03-H15A	03	04/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Orders 98276853 and 98179344 were written to correct problems.
F01.022.022	3-01A-H7B	01A	04/24/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.030.010	3-03A-H118	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.030.011	3-03A-H120	03A	03/21/2000	CLR	---	N	N	
F01.030.014	3-03A-H130	03A	03/21/2000	CLR	---	N	N	
F01.030.017	3-03A-H147	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.030.018	3-03A-H5	03A	03/30/2000	CLR	---	N	N	
F01.030.024	3-07A-H68	07A	03/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.030.033	3-14B-WM-7002	14B	03/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.030.040	3-14B-DE065	14B	04/04/2000	CLR	---	N	N	
F01.030.041	3-14B-H5610	14B	04/04/2000	CLR	---	N	N	
F01.030.045	2-WL-100A-K0031	WL	03/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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F01.031.004	3-03A-H180	03A	03/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.031.010	3-03A-SR17	03A	04/05/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98263067 was written to correct problems.
F01.031.017	3-14B-SR7	14B	03/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.031.018	3-14B-SR8	14B	03/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.040.011	3-LPSW-PU-A	14B	03/27/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98270594 was written to correct problems.
F01.040.012	3-LPSW-STR-A		03/27/2000	REC	---	N	N	
F01.050.001	3-03-SR3	03	03/20/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.002	3-NPS-03-H28	03A	04/18/2000	REC	---	N	N	
F01.050.003	3-53-H3	53A	05/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.004	3-56-H10	56	05/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.005	3-50-H12	50	04/30/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.006	3-50-H1A	50	04/18/2000	CLR	---	N	N	
F01.050.007	3-50-H2A	50	04/19/2000	CLR	---	N	N	
F01.050.008	3-50-H3A	50	04/19/2000	CLR	---	N	N	
F01.050.009	3-51A-H2A	51A	04/15/2000	REC	---	N	N	
F01.050.010	3-03-H6B	03	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98127168 was written to correct problems.
F01.050.011	3-03-H7A	03	04/15/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98127166 was written to correct problems.
F01.050.012	3-50-H10	50	04/19/2000	REC	---	N	N	
F01.050.013	3-50-H11	50	04/19/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering
F01.050.014	3-50-H8	50	04/19/2000	REC	---	N	N	

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F01.050.015	3-50-H9	50	04/19/2000	REC	---	N	N	and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.016	3-50-H1	50	04/15/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Orders 98267180 and 98192811 were written to correct problems.
F01.050.017	3-50-H3	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98192811 was written to correct problems.
F01.050.018	3-57-H13A	57	04/15/2000	CLR	---	N	N	
F01.050.019	3-57-H15	57	04/15/2000	CLR	---	N	N	
F01.050.020	3-57-H16	57	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.021	3-57-H17	57	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.022	3-57-H20	57	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.023	3-57-H21	57	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.024	3-57-H23	57	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.025	3-57-H25	57	04/15/2000	CLR	---	N	N	
F01.050.026	3-57-H7	57	04/15/2000	CLR	---	N	N	
F01.050.027	3-57-H9	57	04/15/2000	CLR	---	N	N	
F01.050.028	3-01A-H2A	01A	04/18/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.029	3-01A-H2B	01A	04/18/2000	CLR	---	N	N	
F01.050.030	3-01A-H8A	01A	04/18/2000	CLR	---	N	N	
F01.050.031	3-01A-H8B	01A	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. The snubber will be replaced with a Lisega snubber per NSM ON-33054.
F01.050.032	3-03A-SR103PO	03A	03/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.033	3-03A-SR104PO	03A	03/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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F01.050.034	3-03A-SR100PO	03A	03/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98269953 was written to correct problems.
F01.050.035	3-03A-SR101PO	03A	03/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98269953 was written to correct problems.
F01.050.036	3-03A-SR102PO	03A	03/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98128407 was written to correct problems.
F01.050.037	3-56-SR107	56	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.038	3-56-SR109	56	04/05/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.039	3-56-SR112	56	04/05/2000	CLR	---	N	N	
F01.050.040	3-56-SR116	56	04/05/2000	REC	---	N	N	
F01.050.041	3-56-SR119	56	04/05/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98127373 was written to correct problems.
F01.050.042	3-51A-SR14	51A	04/04/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.043	3-01A-R10	01A	03/08/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.044	3-01A-R12	01A	03/08/2000	CLR	---	N	N	
F01.050.045	3-01A-R9	01A	03/08/2000	CLR	---	N	N	
F01.050.046	3-53B-SR22	53B	04/03/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267957 was written to correct problems.
F01.050.047	3-54A-SR22	54A	04/03/2000	CLR	---	N	N	
F01.050.048	3-54A-SR7	54A	04/03/2000	REC	---	N	N	
F01.050.049	3-54A-SR14	54A	03/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267957 was written to correct problems.
F01.050.050	3-01A-R4	01A	03/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.051	3-01A-R8	01A	03/07/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering
F01.050.052	3-01A-R12	01A	03/07/2000	REC	---	N	N	

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								and the support was found to be acceptable for service. The snubber is being replaced with a strut per NSM ON-33054.
F01.050.053	3-01A-R11	01A	03/07/2000	CLR	---	N	N	
F01.050.054	3-01A-R4	01A	03/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98192810 was written to correct problems.
F01.050.055	3-53B-SR32	53B	04/04/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.056	3-53B-SR33	53B	04/04/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Orders 98267957 and 98127253 were written to correct problems.
F01.050.057	3-53B-SR38	53B	04/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267957 was written to correct problems.
F01.050.058	3-53B-SR39	53B	04/03/2000	CLR	---	N	N	
F01.050.059	3-13-SR1	13	03/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.060	3-13-SR3	13	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98270065 was written to correct problems.
F01.050.061	3-13-SR4	13	03/07/2000	CLR	---	N	N	
F01.050.062	3-07A-DE027	07A	03/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.063	3-03-DE001	03	04/05/2000	CLR	---	N	N	
F01.050.064	3-03-SR1	03	03/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98103870 was written to correct problems.
F01.050.065	3-03-SR10	03	03/20/2000	CLR	---	N	N	
F01.050.066	3-03-SR11	03	03/08/2000	CLR	---	N	N	
F01.050.067	3-03-SR2	03	03/07/2000	CLR	---	N	N	
F01.050.068	3-03A-DE054	03A	03/20/2000	CLR	---	N	N	
F01.050.069	3-02A-DE016	01A	03/22/2000	CLR	---	N	N	
F01.050.070	3-03A-DE053	03A	03/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98269953 was written to stoke snubber.
F01.050.071	3-53B-DE013	53B	04/03/2000	CLR	---	N	N	

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F01.050.072	3-56-DE005	56	04/05/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98127375 was written to correct problems.
F01.050.073	3-56-DE007	56	04/05/2000	CLR	---	N	N	
F01.050.074	3-53B-DE008	53B	03/30/2000	CLR	---	N	N	
F01.050.075	3-56-DE008	56	03/29/2000	CLR	---	N	N	
F01.050.076	3-03-H6034	03A	04/15/2000	CLR	---	N	N	
F01.050.077	3-03-H6036	03A	04/15/2000	CLR	---	N	N	
F01.050.078	3-03-H6038	03A	04/15/2000	CLR	---	N	N	
F01.050.079	3-03-H6187	03A	04/15/2000	CLR	---	N	N	
F01.050.080	3-57-NWIZ	57	04/15/2000	CLR	---	N	N	
F01.050.081	3-50-H7	50	04/15/2000	CLR	---	N	N	
F01.050.082	3-03A-H204	03A	03/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.083	3-03A-SR33	03A	03/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.084	3-51A-H308	51A	03/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.085	3-51A-H309	51A	03/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.086	3-51A-H294	51A	03/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267180 was written to correct problems.
F01.050.087	3-51A-H304	51A	03/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Orders 98267180 and 98268054 were written to correct problems.
F01.050.088	3-51A-H318	51A	03/29/2000	CLR	---	N	N	
F01.050.089	3-01A-R13	01A	03/08/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.090	3-53B-SR46	53B	04/21/2000	CLR	---	N	N	
F01.050.091	3-54A-R1000	54A	03/29/2000	CLR	---	N	N	
F01.050.092	3-54A-R1001	54A	04/03/2000	CLR	---	N	N	
F01.050.093	3-54A-SR23	54A	03/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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F01.050.094	3-51B-H62	51B	04/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.095	3-54A-SR12	54A	03/30/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.096	3-01A-R10	01A	03/07/2000	REC	---	N	N	
F01.050.097	3-01A-R6	01A	03/07/2000	REC	---	N	N	
F01.050.098	3-01A-R9	01A	03/07/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.099	3-01A-R3	01A	03/22/2000	REC	---	N	N	
F01.050.100	3-07A-H70	07A	03/21/2000	REC	---	N	N	
F01.050.101	3-07A-H71	07A	03/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.102	3-07A-H72	07A	03/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.103	3-07A-H74	07A	03/16/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.104	3-07A-DE031	07A	03/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.105	3-13-DE002	13	03/27/2000	CLR	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.106	3-53B-SR31	53B	04/03/2000	CLR	---	N	N	
F01.050.107	3-50-RCPM-3A1-SS1	50	04/15/2000	REC	---	N	N	
F01.050.108	3-50-RCPM-3A1-SS2	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.109	3-50-RCPM-3A1-SS3	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
								Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.110	3-50-RCPM-3A2-SS1	50	04/15/2000	CLR	---	N	N	Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.111	3-50-RCPM-3A2-SS2	50	04/15/2000	CLR	---	N	N	Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.112	3-50-RCPM-3A2-SS3	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.113	3-50-RCPM-3B1-SS1	50	04/15/2000	CLR	---	N	N	Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.114	3-50-RCPM-3B1-SS2	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267782 was written to correct problems. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.115	3-50-RCPM-3B1-SS3	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Note: Inspection was performed from information given from mod



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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
								packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.116	3-50-RCPM-3B2-SS1	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 98267782 was written to correct problems. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.117	3-50-RCPM-3B2-SS2	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.118	3-50-RCPM-3B2-SS3	50	04/15/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Note: Inspection was performed from information given from mod packages. The sketches for this support had not been updated to reflect the modification. PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and they do not reflect modifications that have been performed.
F01.050.119	3-01A-R6	01A	05/08/2000	CLR	---	N	N	
G09.001.006	3-53B-34-36A	53B	02/24/2000	CLR	---	N	N	
G09.001.011	3-53B-37-51	53B	02/24/2000	CLR	---	N	N	
G09.001.014	3-53B-44-9	53B	04/28/2000	CLR	---	N	N	
G09.001.015	3-53B-45-40	53B	02/28/2000	CLR	---	N	N	
G09.001.026	3-54A-11-27	54A	02/29/2000	CLR	---	N	N	
G10.001.007	3-PIA1-9	50	04/23/2000	CLR	---	N	N	
G10.001.010	3-PIB2-9	50	05/03/2000	CLR	---	N	N	
G11.001.001	3RCP-3A2	50	04/29/2000	CLR	---	N	N	
G11.001.002	3RCP-3B1	50	04/29/2000	CLR	---	N	N	
G12.001.004	3-51B-30-73	51B	04/27/2000	CLR	---	N	N	

- 5.2** Limited examinations (i.e., less than or equal to 90% of the required examination coverage obtained) identified during EOC18 (Outage 4) are shown below. A copy of the Requests for Relief are contained in Section 9.0 of this report

<b><u>Item Number</u></b>	<b><u>Request for Relief Serial Number</u></b>
B05.130.001	00-003
B05.130.002	00-003
B09.011.017	00-003
C05.021.050	00-003
C05.021.064	00-003

## **6.0 Reportable Indications**

EOC18 (Outage 4) had 2 reportable items.

PIP O-00-01376 was written to document a problem found with a pipe saddle located on support 3-03A-H175(Item Number D02.020.032). The problem was determined not to be service induced and Minor Modification ONOE-15019 was written to remove the saddle. A copy of PIP O-00-01376 is located in Section 9 of this report.

PIP O-00-01756 was written to document a problem found on support 3-14B-H19D (Item Number F01.021.004). The discrepancies found were reviewed by civil engineering and were determined not to be service induced. Minor Modification OE-15071 was implemented to restore this support to an operable status. Since the degradations were not service induced, additional samples per Code Case N-491, Subparagraph -2430 are not required. A copy of PIP O-00-01756 is located in Section 9 of this report.

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

All personnel who performed or evaluated the results of inservice inspections from December 20, 1998 to May 22, 2000 at Oconee Nuclear Station, Unit 3, were certified in accordance with the requirements of 1989 Edition of ASME Section XI with no Addenda. The appropriate certification records for each inspector are on file at Oconee Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

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

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

## **8.0 Corrective Action**

PIP O-00-01289 was written to document the fact that sketch revisions are backlogged and some of the hanger sketches do not reflect modifications that have been performed. Item Numbers F01.050.107, F01.050.108, F01.050.109, F01.050.110, F01.050.111, F01.050.112, F01.050.113, F01.050.114, F01.050.115, F01.050.116, F01.050.117, and F01.050.118 were inspected off information provided from modification packages because the hanger sketches had not been revised. A copy of PIP O-00-01289 is located in Section 9 of this report.

PIP O-00-01376 was written to document a problem found with a pipe saddle located on support 3-03A-H175(Item Number D02.020.032). The problem was determined not to be service induced and Minor Modification ONOE-15019 was written to remove the saddle. A copy of PIP O-00-01376 is located in Section 9 of this report.

PIP O-00-01756 was written to document a problem found on support 3-14B-H19D (Item Number F01.021.004). The discrepancies found were reviewed by civil engineering and were determined not to be service induced. Minor Modification OE-15071 was implemented to restore this support to an operable status. Since the degradations were not service induced, additional samples per Code Case N-491, Subparagraph -2430 are not required. A copy of PIP O-00-01756 is located in Section 9 of this report.

## **9.0 Reference Documents**

The following reference documents apply to the inservice inspection performed during EOC18 (Outage 4) at Oconee 3.

Duke Power Company Request for Relief # 00-003  
Duke Power Company Problem Investigation Process Report O-00-01289  
Duke Power Company Problem Investigation Process Report O-00-01376  
Duke Power Company Problem Investigation Process Report O-00-01756

Duke Energy Corporation

Station Oconee Unit 3

10-YEAR INTERVAL REQUEST FOR RELIEF NO. 00-003

I. System/Component(s) for Which Relief is Requested:

a. Decay Heat Exchanger Nozzle-to-Pipe Welds:

3-53A-18-11	Item Number B05.130.001
3-PHA-17	Item Number B05.130.002

b. Reactor Coolant Pump 3A1 Outlet Nozzle-to-Safe End:

3-PDA1-1	Item Number B09.011.017
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c. Valve 3HP-27 to Elbow:

3-51A-66-40	Item Number C05.021.050
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d. Valve 3HP-130 to Pipe:

3-51A-87-54A	Item Number C05.021.064
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II. Code Requirement:

- a. Figure IWB-2500-8, Examination Category B-F, Pressure Retaining Dissimilar Metal Welds as modified by Code Case N-460.
- b. Figure IWB-2500-8, Examination Category B-J, Pressure Retaining Welds in Piping as modified by Code Case N-460.
- c. Figure IWC-2500-7, Examination Category C-F-1, Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping as modified by Code Case N-460.

III. Code Requirement from which relief is requested:

Relief is requested from the requirement of examining essentially 100% of the required volume. Due to part geometry, physical barriers and austenitic weld metal, obtaining greater than 90% coverage of the required volume as defined in Code Case N-460 is not possible with existing limitations.

Code Case N-460 allows credit for full volume coverage if it can be shown that more than 90% of the required volume has been examined.

**IV. Basis for Relief:**

**Decay Heat Exchanger Nozzle-to-Pipe Welds 3-53A-18-11 and 3-PHA-17** (Item Number B05.130.001) (Item Number B05.130.002) are limited to 75% coverage of the required volume because of the nozzle taper. In order to achieve more coverage, the nozzles would have to be re-designed to eliminate the taper.

The subject welds were examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section XI, Appendix III of the 1989 Edition. Reference Attachment A for a drawing of the Decay Heat Exchanger Nozzle-to-Pipe welds.

**Reactor Coolant Pump 3A1 Outlet Nozzle to Safe End weld 3-PDA1-1** (Item Number B09.011.017) is limited to 62.5% coverage of the required volume because of the single sided access due to the nozzle configuration and location of lifting lugs. In order to achieve more coverage, the nozzle would have to be re-designed to allow scanning from both sides of the weld.

Current ultrasonic technology is not capable of reliably detecting or sizing flaws on the far side of austenitic weld configurations common to US nuclear plants. Duke Energy Corporation has demonstrated that the best available techniques were applied through the PDI. The PDI Performance Demonstration Qualification Summary (PDQS) for austenitic piping certifies that examinations from one side are a "best effort". Therefore, coverage on the far side of the weld is not claimed.

The subject weld was examined to the maximum extent practical using ultrasonic techniques qualified in accordance with the requirements of ASME Section XI, Appendix VIII of the 1992 Edition with the 1993 Addenda as modified by the PDI. Use of this edition and addenda was granted in Relief Request 95-GO-003 on September 12, 1995. Reference Attachment B for a drawing of the Reactor Coolant Pump 3A1.



**Valve 3HP-27 to Elbow Weld 3-51A-66-40** (Item Number C05.021.050) is limited to 62.49% coverage of the required volume because of the single sided access due to the valve configuration. In order to achieve more coverage, the configuration would have to be re-designed to allow scanning from both sides of the weld. Reference Attachment C for a drawing of the valve to elbow weld.

Current ultrasonic technology is not capable of reliably detecting or sizing flaws on the far side of austenitic weld configurations common to US nuclear plants. Duke Energy Corporation has demonstrated that the best available techniques were applied through the PDI. The PDI Performance Demonstration Qualification Summary (PDQS) for austenitic piping certifies that examinations from one side are a "best effort". Therefore, coverage on the far side of the weld is not claimed.

The subject weld was examined to the maximum extent practical using ultrasonic techniques qualified in accordance with the requirements of ASME Section XI, Appendix VIII of the 1992 Edition with the 1993 Addenda as modified by the PDI.

**Valve 3HP-130 to Pipe Weld** (Item Number C05.021.064) This weld is limited to 62.50% coverage of the required volume because of single sided access due to the valve configuration. In order to achieve more coverage, the configuration would have to be re-designed to allow scanning from both sides of the weld. Reference Attachment D for a drawing of the valve to elbow weld.

Current ultrasonic technology is not capable of reliably detecting or sizing flaws on the far side of austenitic weld configurations common to US nuclear plants. Duke Energy Corporation has demonstrated that the best available techniques were applied through the PDI. The PDI Performance Demonstration Qualification Summary (PDQS) for austenitic piping certifies that examinations from one side are a "best effort". Therefore, coverage on the far side of the weld is not claimed.

The subject weld was examined to the maximum extent practical using ultrasonic techniques qualified in accordance with the requirements of ASME Section XI, Appendix VIII of the 1992 Edition with the 1993 Addenda as modified by the PDI.

V. Alternate Examinations or Testing:

The use of radiography as an alternate volumetric examination of the welds/components referenced in this request is not a viable option. Restrictions to performing radiography are primarily due to inability to access the inside of the components to place film or to position a radiographic source; and it would require draining down the system in order to radiograph the welds.

Duke Energy proposes to use the pressure test and VT-2 visual examination to compliment the limited examination coverage. The Code requires (reference Table IWB-2500-1, Item Number B15.20) that a system leakage test be performed after each refueling outage. Additionally a system hydrostatic test (reference Table IWB-2500-1, Item Number B15.21) is required once during each 10-year inspection interval. These tests require a VT-2 visual examination for evidence of leakage. This testing will provide adequate assurance of pressure boundary integrity.

In addition to the above Code required examinations (volumetric and pressure test), there are other activities which provide a high level of confidence that, in the unlikely case that leakage did occur through these welds, it would be detected and isolated. Specifically, leakage from these welds would be detected by monitoring of the Reactor Coolant System (RCS), which is performed daily under procedure PT/1,2,3/A/0600/10, "RCS Leakage". This RCS leakage monitoring is a requirement of the Technical Specification 3.4.13, "RCS Operational Leakage". Leakage is also evaluated in accordance with this Technical Specification. The leakage could be detected through several methods. Technical Specification 3.4.15, RCS "Leakage Detection Instrumentation", has requirements of the containment normal sump level indication, in combination with a particulate (RIA-47) or gaseous radioactivity monitor (RIA-49). These monitors are sensitive to low leak rates; are capable of detecting any fission products in the coolant and will make these monitors sensitive to coolant leakage. In addition to the radiation monitors, a level indicator in the Reactor Building normal sump also monitors leakage. Other checks are the RCS mass balance calculation and level in the Letdown Storage Tank.

Duke Energy has examined the welds/components referenced in this request to the maximum extent possible utilizing the latest in examination techniques and equipment. Duke Energy will continue to perform ultrasonic examination of all welds/components identified in Section I of

this request to the maximum extent practical, within the limits of original design and construction. Future examinations will be in accordance with the requirements of ASME Section XI 1995 Edition with the 1996 Addenda Appendix VIII as modified by 10CFR50.55a(b)(2)(xiv, xv and xvi) and Code Case N-460. This will provide reasonable assurance of weld/component integrity. Thus, an acceptable level of quality and safety will have been achieved, and allowing relief from the aforementioned Code requirements will not endanger public health and safety.

VI. Justification for the Granting of Relief:

Duke Power Company will continue to ultrasonically examine the welds to the extent practical within the limits of original design and construction. This will provide reasonable assurance of weld/component integrity. Thus, an acceptable level of quality and safety will have been achieved and allowing relief from the aforementioned Code requirements will not endanger public health and safety.

The Code requires 100% volumetric examination of all Decay Heat Exchanger Nozzle-to-Pipe Welds; Reactor Coolant Pump 3A1 Outlet Nozzle to Safe End Welds; Valve 3HP-27 to Elbow Weld and Valve 3HP-130 to Pipe Weld. However, the configuration of the welds restricts scanning and prevents complete volumetric coverage of Decay Heat Exchanger Nozzle-to-Pipe Welds; Reactor Coolant Pump 3A1 Outlet Nozzle to Safe End Welds; Valve 3HP-27 to Elbow Weld and Valve 3HP-130 to Pipe Weld. Therefore, the 100% volumetric examination is impractical. To meet Code examination requirements, modifications to the configurations would be necessary to allow scanning from both sides of the weld. Modification of this nature would create a considerable burden on Duke Energy.

Duke Energy obtained 75% coverage of the Decay Heat Exchanger Nozzle to Pipe Welds 3-53A-18-11 and 3-PHA17 and 62.5% coverage of the Reactor Coolant Pump 3A1 to Safe End weld 3-PDA1-1; 62.49% coverage of the Valve 3HP-27 to Elbow 3-51A-66-40 weld and 62.50% coverage of the Valve 3HP-130 to Pipe weld 3-51A-84-54A. It is recognized that this represents a small part of the required Code examination volume. However, in conjunction with the Code required VT-2 visual examination after each refueling outage and the 10-year hydrostatic test; Duke Energy believes this provides reasonable assurance of the continued structural integrity of the subject welds/components.

Pursuant to 10 CFR 50.55a(g)(6)(i), granting this relief will provide reasonable assurance of weld/component integrity, "is authorized by law

and will not endanger life or property or the common defense and security and is otherwise in the public interest giving due consideration to the burden upon the licensee that could result if the requirements were imposed on the facility."

VII. Implementation Schedule:

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The following individuals were involved in the development of this request for relief:

B. W. Carney Jr., Oconee Engineering provided input to Sections VI and V of this request as well.

M. D. Leighton, Oconee Primary Systems provided input to Sections VI and V of this request as well.

J. J. McArdle III, NDE Level III provided input for Sections III, IV, V and VI of this request.

R. G. Rouse, Oconee ISI Plan Manager compiled and completed this request.

Sponsored By:

R. G. Rouse

Date:

6/26/00

Approved By:

L. Kevin Rhyme

Date:

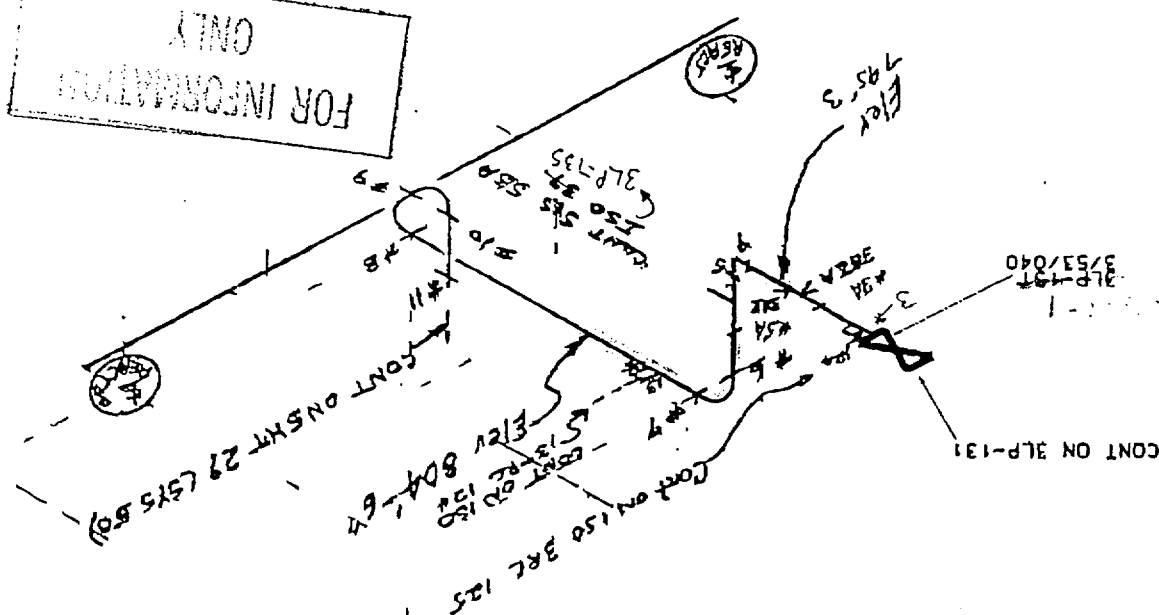
6/27/00

ISOMETRIC SKETCH

PROJECT CODE: SYSTEM 538 SUB SYSTEMS (2/4) UNIT 8.8 ISO NO. 18 REV NO. 11  
CLASS AB MATERIAL CREATOR WF DINC PROCEDURE LAST WELD NO. 13 DATE 11/87

831.7  
P51501

WELDS 1.12.2 TRANSFERRED SEE  
DRAWING 3LP-131 FOR WTR



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13	HLA	059667 0096030239 REV COM1
14	HLA	059667 0096030239 REV COM1
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42	HLA	059667 0096030239 REV COM1
43	HLA	059667 0096030239 REV COM1
44	HLA	059667 0096030239 REV COM1
45	HLA	059667 0096030239 REV COM1
46	HLA	059667 0096030239 REV COM1
47	HLA	059667 0096030239 REV COM1
48	HLA	059667 0096030239 REV COM1
49	HLA	059667 0096030239 REV COM1
50	HLA	059667 0096030239 REV COM1
51	HLA	059667 0096030239 REV COM1
52	HLA	059667 0096030239 REV COM1
53	HLA	059667 0096030239 REV COM1
54	HLA	059667 0096030239 REV COM1
55	HLA	059667 0096030239 REV COM1
56	HLA	059667 0096030239 REV COM1
57	HLA	059667 0096030239 REV COM1
58	HLA	059667 0096030239 REV COM1
59	HLA	059667 0096030239 REV COM1
60	HLA	059667 0096030239 REV COM1
61	HLA	059667 0096030239 REV COM1
62	HLA	059667 0096030239 REV COM1
63	HLA	059667 0096030239 REV COM1
64	HLA	059667 0096030239 REV COM1
65	HLA	059667 0096030239 REV COM1
66	HLA	059667 0096030239 REV COM1
67	HLA	059667 0096030239 REV COM1
68	HLA	059667 0096030239 REV COM1
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70	HLA	059667 0096030239 REV COM1
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74	HLA	059667 0096030239 REV COM1
75	HLA	059667 0096030239 REV COM1
76	HLA	059667 0096030239 REV COM1
77	HLA	059667 0096030239 REV COM1
78	HLA	059667 0096030239 REV COM1
79	HLA	059667 0096030239 REV COM1
80	HLA	059667 0096030239 REV COM1
81	HLA	059667 0096030239 REV COM1
82	HLA	059667 0096030239 REV COM1
83	HLA	059667 0096030239 REV COM1
84	HLA	059667 0096030239 REV COM1
85	HLA	059667 0096030239 REV COM1
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93	HLA	059667 0096030239 REV COM1
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95	HLA	059667 0096030239 REV COM1
96	HLA	059667 0096030239 REV COM1
97	HLA	059667 0096030239 REV COM1
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99	HLA	059667 0096030239 REV COM1
100	HLA	059667 0096030239 REV COM1

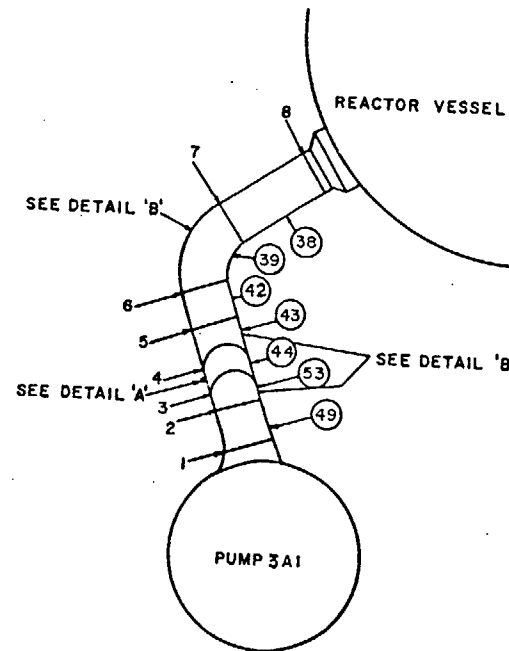
1	REPOUCH
1	1,8 to
1	CLASS B
1	CRES/304
2	Repuuch II
5	98.54
4	10/13, 3A2
5	3A2A
5	P-7
10	B56OCAT5 9827

\* 12 PIPE BORO OUT TO 0 375  
\* FOR 3/4 6000 HLF CPG TIE IHS

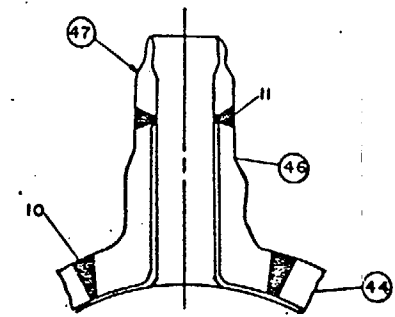


Attachment B  
RFR 00-003  
Sheet 1 of 1

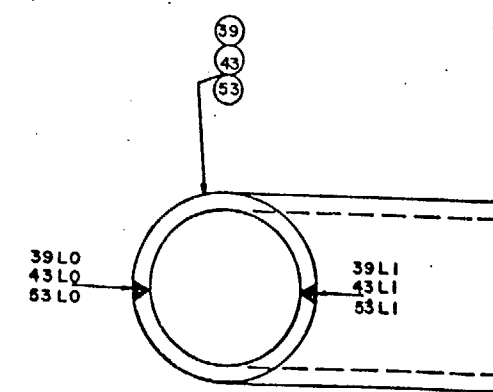
IDENT NO.	PIECE NO.	DIAM.	THICK.	PC NO.	QTY	DESCRIPTION	MATL.
1	PUMP-49	33.50	2.333	N/A	1	3A1 PUMP NOZZLE	A351 CFB
2	49-53	33.50	2.333	N/A	1	REACTOR NOZZLE	SA508 CL2
3	53-44	33.50	2.333	38	1	28" I.D. PIPE	A106 GRC
4	44-43	33.50	2.333	39	1	28" I.D. ELBOW 75°	SA516 GR70
5	43-42	33.50	2.333	43	1	28" I.D. ELBOW 45°	SA516 GR70
6	42-39	33.50	2.333	44	1	28" I.D. PIPE	A106 GRC
7	38-39	33.50	2.333	42	1	28" I.D. PIPE	A106 GRC
8	38-REACT. NOZZLE	33.50	2.333	53	1	28" I.D. ELBOW 45°	SA516 GR70
10	44-46	12.00	2.250	49	1	SAFE END	SA376TP316
11	46-47	3.50	.750	46	1	HPI NOZZLE	A105 GR2
				47	1	SAFE END	A336 CFB
39LO	39	34.75	2.333				
39LI	39	34.75	2.333				
43LO	43	34.75	2.333				
43LI	43	34.75	2.333				
53LO	53	34.75	2.333				
53LI	53	34.75	2.333				



REFERENCE DWGS.  
OM 2201-2



DETAIL 'A'



DETAIL 'B'

NOTES:

1. ALL WELD NUMBERS SHALL BE PRECEDED BY "3PDA1-"
2. PIECE NUMBERS ARE SHOWN IN CIRCLES.

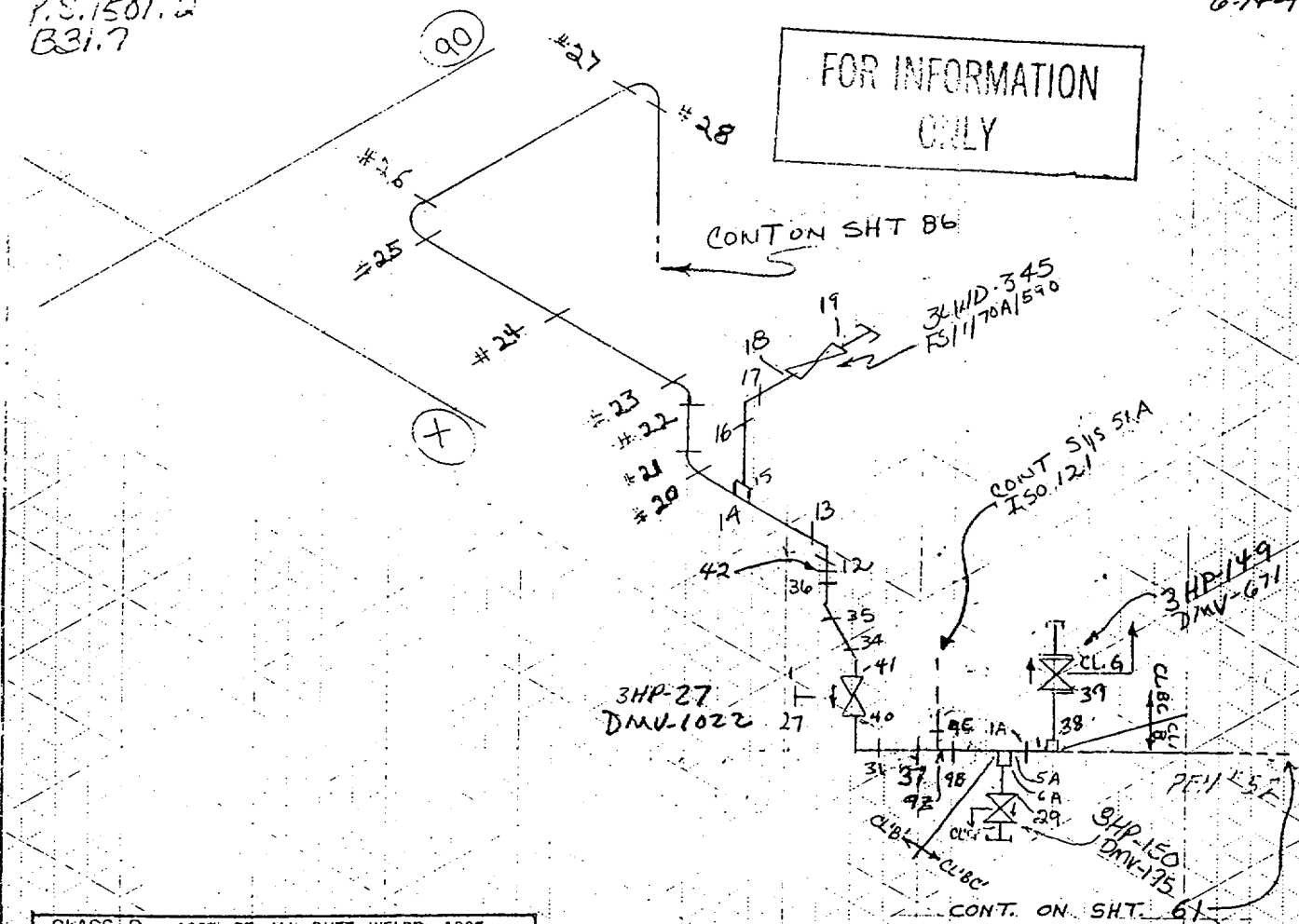
1	REVISED MATL. PC.47	ASH	DEC	72	TITLE PUMP '3A1' DISCHARGE PIPING	
		7/31/84	11/21/84	7/31/84		
0	ORIG.	AW5	TMMH	11/21/84		
NO.	REVISION	DRWN DATE	RVWD DATE	APPD DATE	DWG NO.	REV.
					ISI OCN3-011	

APPENDIX

ENGINEERING DEPARTMENT

Attachment C  
RFR 00-003  
Sheet 1 of 1

PROJECT: COALFE SYSTEM A (1) 342 ISO 66 REV. NO. 15  
CLASS: E, BC MATERIAL: CRES/316 WELDING: ISO 15614 LAST WELD: 42 DATE: 6-14-95  
P.S. 1501.2  
B31.7



CLASS B -- 100% RT ALL BUTT WELDS. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH WELDS. NOTE: ANY WELD 1" AND LESS IN DIAMETER IS CLASS C OR E.

- ① VALVE SPEC. NO. OS 245-1 REQ. NO. 7310-790358
- ② CRES/316
- ③ TRANSITION piece sch 40s to sch 160

ERN: OX00324Z

REF. DWG. NOS.		SIZE x WALL THICKNESS	WELD NUMBERS	NDT CODE	ISO. REV. NO.	CHANGES	ISO. REV. NO.	CHANGES
DWG.	REV.					WELD NOS.		WELD NOS.
2439C	0	1" x .358"	15A, 6A, 29, 38, 39	0W	9	9Z		
OPD-121A-3.4		1" x .250"	14-19	0W	10	29 WR#51345K		
		4" x .674"	9B, 9C, 1A, 31, 37, 40	5W	11	9A, 9E, 10B, 11		
		4" x .531"	12, 13, 20-22, 41, 42, 34, 35, 36	5W	12	30-37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		
					13	2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A, 13A, 14A, 15A, 16A, 17A, 18A, 19A, 20A, 21A, 22A, 23A, 24A, 25A, 26A, 27A, 28A, 29A, 30A, 31A, 32A, 33A, 34A, 35A, 36A, 37A, 38A, 39A, 40A, 41A, 42A, 43A, 44A, 45A, 46A, 47A, 48A, 49A, 50A, 51A, 52A, 53A, 54A, 55A, 56A, 57A, 58A, 59A, 60A, 61A, 62A, 63A, 64A, 65A, 66A, 67A, 68A, 69A, 70A, 71A, 72A, 73A, 74A, 75A, 76A, 77A, 78A, 79A, 80A, 81A, 82A, 83A, 84A, 85A, 86A, 87A, 88A, 89A, 90A, 91A, 92A, 93A, 94A, 95A, 96A, 97A, 98A, 99A, 100A		
					14	30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		
					15	40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		

VSM 1080 \* ATT WELDS 19Z  
ALL WELD NUMBERS SHOWN ABOVE ARE PRECEDED BY THE ISO. NO.  
DLA  
NOT {1,5,14} code 6 W



PARADISE  
CATER

DUKE POWER COMPANY  
CONSTRUCTION DEPARTMENT

4" H.P. INJECTION TO  
R.C. PUMP SEALS

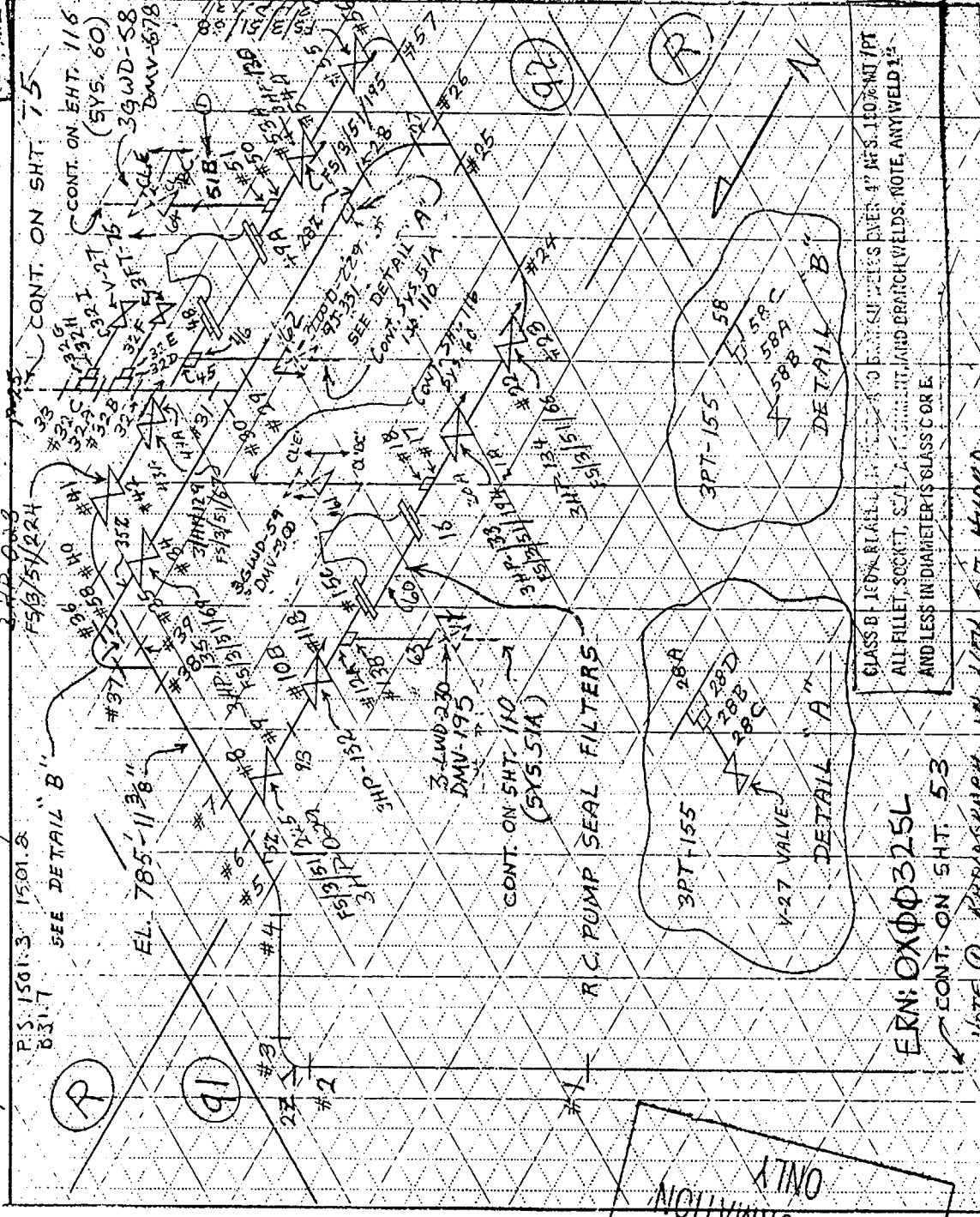
# ISOMETRIC SKETCH

PROJECT QCONJEE SYSTEM 51A SUB SYSTEMS (1)

UNIT 3A.B.ISO. NO. \*87 REV. NO.

CLASSE B+C MATERIAL CRES/304 WELDING PROCEDURE

DATE 6-5-92  
LAST WELD NO. 163



REF. DWG. NOS.	DWG.	REV.	1" Ø X 180" SIZE X WALL THICKNESS	WELD NUMBERS	NDT CODE	ISO. REV. NO.	CHANGES		ISO. REV. NO.	CHANGES	
							WELD NOS.	WELD NOS.		+	WELD NOS.
2444	N/A		4" Ø x .531"	1-9, 15C, 32A, 46	5" N	13	-	19, 14A	29 DM	+	47B
2437A			43A, 44A, 53A, 108	48, 9B, 55-57	5" N	60	+	12P, 14B	39 DM	+	46A, 46
13-1112-3			242, 243, 210, 118	46, 57A, 22-4A, 22-4B	5" N	24	+	CORRECTED VALUE 56% #	31 DM	+	100A, 96
WRS1213/F			1" Ø x .250"	12, 13A, 17, 18, 32G	C 0 P 15	15	-	14B	32 DM	+	60
(11-1-NPT)			63, 58, 28A	45, 46, 55, 57, 51B	C 0 P 15	60	+	14C	33 DM	+	19C
(47C, 46)			28D, 58C	25, B, 32C, 32D	C 0 P 15	15	-	19B	34 DL	+	46C
1/2" Ø x .188"			58A, 58B		C 0 P 15	15	+	19C	35 DL	+	46C
1/2" Ø x .188"			23B, 28C, 32E		C 0 P 15	15	+	CORRECTED VALUE 56% #	36 DL	+	46C
32F, 32H, 32I					C 0 P 15	15	-	47A			
WELDS: 2 Z 52 28Z 35Z					C 0 P 15	15	+	47B			

\*ALL WELD NUMBERS SHOWN ABOVE ARE PRECEDED BY THE ISO. NO.

D.L.O. WK#52285G WK#051062H 58, 28A, 17, 12, 50, 45 - code 6  
1/1K D57228B NOT Exception - we 10

Revised

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

PIP Serial No:	Action Category:	LER No:	Other Report:
O-00-01289	4		

### **Problem Identification**

**Discovered Time/Date:** 07:18 04/13/2000

**Occurred Time/Date:**

**Unit(s) Affected:**

<u>Unit</u>	<u>Mode</u>	<u>%Power</u>	<u>Unit Status</u>	<u>Remarks</u>
3	3			

**System(s) Affected:**

MS Main Steam

**Affected Equipment**

(No Equipment Affected)

**Location of Problem:**

Bldg: Column Line: Elev:

**Location Remarks:**

**Method Used to Discover Problem:**

**Brief Problem Description:**

OUTDATED SKETCHES

**Detail Problem Description:**

THE IN-SERVICE INSPECTION PLAN FOR 3EOC-18 INCLUDES, AMONG OTHERS, THREE HYDRAULIC SNUBBERS ATTACHED TO EACH OF FOUR REACTOR COOLANT PUMPS. THESE SNUBBERS WERE REPLACED WITH UPDATED EQUIPMENT DURING A PREVIOUS OUTAGE. DURING OUR PRE-JOB EVALUATION, IT WAS NOTED THAT THE SKETCHES AVAILABLE AT THIS TIME DO NOT REFLECT THE NEW CONFIGURATIONS AND EQUIPMENT. THESE MOD PACKAGES ARE IN BACKLOG. THIS PIP IS WRITTEN TO DOCUMENT OUR REVIEW OF THOSE PACKAGES AND THAT THE INSPECTIONS WILL BE PERFORMED WITH DATA FROM THE MOD PACKAGES WHICH HAS NOT BEEN UPDATED TO A NEW SKETCH REVISION. SUPPORTS INVOLVED ARE LISTED BELOW:

3-50-0-1066A-RCPM-3A1-SS1, -SS2, -SS3  
3-50-0-1066A-RCPM-3B1-SS1, -SS2, -SS3  
3-50-0-1066A-RCPM-3A2-SS1, -SS2, -SS3  
3-50-0-1066A-RCPM-3B2-SS1, -SS2, -SS3

Originated By: PSE1290: EBERHART, PATMAN S Team: GER8996 Group: WCG Date: 04/13/2000

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

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

**Immediate Corrective Actions:**

The sketches identified by this PIP are part of an identified backlog FR&DU project. The sketches will be updated for the Unit 3 RCPM snubbers for the changes made per OE-11238, -11239, -11240, and -11241 during this FR&DU backlog project. No problem evaluation or corrective actions are needed for this PIP.

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 04/18/2000

### **Immediate Corrective Action Documents / Work Orders:**

	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	PSE1290	GER8996	WCG	04/13/2000
Problem Entered By:	PSE1290	GER8996	WCG	04/13/2000

### **Screening**

Is the Problem Significant? No Action Category: 4

OEP No:

Other Report Nos:

### **Event Codes:**

D6 Drawings

### **Screening Remarks:**

Rescreened to CEN per L. Llibre.

Last Updated By: RWV1470: VASSEY, RAY W Team: RTB7310 Group: SRG Date: 04/17/2000

This event has been reviewed by the CST and found not to meet the MSE significance criteria.

Screening members present for this review: Robert Knoerr (ENG), and Mike Pruitt (OPS).

Originated By: RWV1470: VASSEY, RAY W Team: RTB7310 Group: SRG Date: 04/13/2000

### **Assignments:**

Responsible Groups(s) for Problem Evaluation:	CEN	Civ, Elect., Nuclear
Responsible Group for Present Operability:	N/A	
Responsible Group for Past Operability:	N/A	
Responsible Group for Reportability:	N/A	
Responsible Group for Overall PIP Approval:	WCG	Work Control

<u>Signature Type</u>	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Screened By:	EHD8302	RTB7310	SRG	04/19/2000

### **Present Operability**

Responsible Group:

Status:

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Sys/Comp Operable? (Y,N,C,E,T):

Required Mode:

Comments:

**No Current Signatures For This Section**

### **Past Operability:**

Responsible Group:

Status:

Sys/Comp Operable?(Y,N,C,E,T):

Required Mode:

Comments:

**No Current Signatures For This Section**

### **Reportability**

Responsible Group:

Status:

Problem Reportable(Y,N,E):

Reportable Per:

Comments:

**No Current Signatures For This Section**

### **Investigation Report:**

Responsible Group:

Act Date:

Investigator:

Group:

Due Date:

Date Due to VP or Sta. Mgr:

Date Regulatory or Agency Rpt Due:

Date Investigation Report Approved:

NRC Cause Codes:

### **Problem Evaluation**

Event	Cause Code	Cause Description	Primary	Causing Groups
-------	------------	-------------------	---------	----------------

**Problem Evaluation From:** Resp. Group: CEN      Status: NotRequired      OEDB Checked: No

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

**OEDB Comments:**

**Remarks Comments:**

Signature Type	Indiv	Team	Group	Date
Due Date:	05/13/2000			
Assigned To:		RAH8344	CEN	04/18/2000

### **Corrective Actions**

No Corrective Actions for this PIP

### **Final and Overall PIP Approval**

Responsible Group: WCG      Status: Closed

Signature Type	Indiv	Team	Group	Date
Assigned To:			WCG	04/13/2000
Approval Assigned To:	JNW8302	JNW8302	WCG	04/20/2000
Approved By:	JNW8302	JNW8302	WCG	06/19/2000

Any Supplemental Concurrence Signatures Above Do Not Affect PIP Closure.

**Closure Document Type**

**Closure Document No**

### **Attachments**

### **Generic Applicability**

Responsible Group:      Status:  
GO PIP No:

**Assessment Remarks:**

No Current Signatures For This Section

### **Failure Prevention Investigation**

Quality of CA:      Quality of Cause:      Resp Group: SRG      Status: Closed

**Special Codes:**

N8

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

### Comments

Signature Type	Indiv	Team	Group	Date
Assigned To:			SRG	04/13/2000
Ready For Approval:	RWVASSEY	RTB7310	SRG	04/19/2000
Approval Assigned To:	RTB7310	RTB7310	SRG	04/19/2000
Approved By:	RWVASSEY	RTB7310	SRG	04/19/2000

### **Remarks**

No Remarks for this PIP.

### **Maintenance Rule**

No Maintenance Rule Records for this PIP.

---

End of the Document for PIP No: O-0-1289  
The status of this PIP is: Closed  
The duration of this PIP was: 67 days

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

PIP Serial No:	Action Category:	LER No:	Other Report:
O-00-01376	4		

### **Problem Identification**

**Discovered Time/Date:** 08:24 04/18/2000

**Occurred Time/Date:** 18:00 04/17/2000

**Unit(s) Affected:**

<u>Unit</u>	<u>Mode</u>	<u>%Power</u>	<u>Unit Status</u>	<u>Remarks</u>
3	5	0		cold shutdown

**System(s) Affected:**

EFW                      Emergency Feedwater

**Affected Equipment**

(No Equipment Affected)

**Location of Problem:**

Bldg: TB                      Column Line: D50                      Elev: 781'-6"

**Location Remarks:**

TB Basement

**Method Used to Discover Problem:**

Evaluating pipe saddle while resolving comments per ISI inspection

**Brief Problem Description:**

Support 3-03A-1-0-2400A-H175 is now Non-conforming with design requirements.

**Detail Problem Description:**

This problem existed since original design long ago. The PIP should be screened as category 4.

Last Updated By: PHP4260: PATEL, PARSHOTTAM H Team: RAH8344 Group: CEN Date: 04/18/2000

The pipe saddle (item# 1) of support 3-03A-1-0-2400A-H175 is nonconforming for the design loads. This support is located on 6" Emergency Feed Water line from motor driven FDW pump 3B. The ISI inspection reported that the subject pipe saddle is rotated 8 to 10 degrees counter clockwise from bottom centerline of pipe. The civil engineering review has found that this is not a service-induced discrepancy and the initial installation of the saddle may have been inadequate. However, while evaluating the saddle for the design loads it is found that the actual design loads are much greater than the allowable loads. Design loads on S/R are 3450 lbs normal, 3652 lbs upset, and 3854 lbs faulted. The allowable capacities on 6" Fig. 161 (item# 1) protection saddle are 1800 lbs normal, 2400 lbs upset, and 2700 lbs faulted per vendor LCD.

Identical supports in units 1 and 2 have either lower loads or different design configuration and do not have similar problem as identified above for unit 3 support.

A past operability will be required.

Originated By: PHP4260: PATEL, PARSHOTTAM H Team: RAH8344 Group: CEN Date: 04/18/2000

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

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

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

Immediate Corrective Actions:

Originated By: PHP4260: PATEL, PARSHOTTAM H Team: RAH8344 Group: CEN Date: 04/18/2000

Immediate Corrective Action Documents / Work Orders:

	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	PHP4260	RAH8344	CEN	04/18/2000
Problem Entered By:	PHP4260	RAH8344	CEN	04/18/2000

### **Screening**

Is the Problem Significant? No      Action Category: 4

OEP No:

Other Report Nos:

#### **Event Codes:**

F3      Equipment Out of Norm

### **Screening Remarks:**

Per the problem description, this problem has been in existence greater than 2 years; therefore, the problem evaluation has been deleted and the PIP rescreened as a Category 4.

Last Updated By: SNS3927: SEVERANCE, SANDRA N Team: CAL7344 Group: CEN Date: 05/12/2000

This event has been reviewed by the CST and found not to meet the MSE significance criteria.

Screening members present for this review: Sandy Severance (ENG), Kenny Mc Corkle (MNT & WCG), and Wheeler Matthews (OPS).

Originated By: EHD8302: DUMMEYER, EDWARD H Team: RTB7310 Group: SRG Date: 04/18/2000

### **Assignments:**

Responsible Groups(s) for Problem Evaluation:	CEN	Civ, Elect., Nuclear
Responsible Group for Present Operability:	N/A	
Responsible Group for Past Operability:	RGC	Regulatory Compliance
Responsible Group for Reportability:	N/A	
Responsible Group for Overall PIP Approval:	CEN	Civ, Elect., Nuclear

<u>Signature Type</u>	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Screened By:	SNS3927	CAL7344	CEN	05/12/2000



# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

### **Present Operability**

Responsible Group: Status:

Sys/Comp Operable? (Y,N,C,E,T):

Required Mode:

Comments:

**No Current Signatures For This Section**

### **Past Operability:**

Responsible Group: CEN Status: Closed

Sys/Comp Operable?(Y,N,C,E,T): Y

Required Mode: 4

Comments:

#### 1. Statement of Problem

-----  
The pipe saddle item 1 of hanger 3-03A-1-0-2400A-H175 is found nonconforming for the design loads.

#### 2. Relation to QA Condition

-----  
QA Condition 1

#### 3. Applicable codes And standards

-----  
AISC Manual of steel Construction, 6th edition.

#### 4. Evaluation Inputs/Methods Used

-----  
Manufacturer's Load Capacity Data Sheets are used to evaluate acceptability of vendor supplied item. The Vendor supplied hanger components are designed with a factor of safety 5. For operability purpose a minimum factor of safety 2 is considered acceptable. The above requirement can be satisfied if the imposed faulted load does not exceed the rated normal load capacity x 2.5. Identification of appropriate ASME codes, ANSI standards, etc, which are pertinent to the evaluation.

#### 5. Other Evaluation Criteria

-----  
Field inspection of hanger component.

#### 6. Applicable Licensing References

-----  
UFSAR Section 3.9.3.4.2, Supports for Other Duke Class a, B, C, and F Piping.  
UFSAR Section 3.9.3.4.2.1.4, Standard Components.

#### 7. Assumptions

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

None.

### 8. References

- 8.1 OS-0027.00-00-0001, Design Specification for QA Condition 1 Pipe Supports and Restraints, Rev. 11
- 8.2 IE Bulletin 79-14 Support/Restraint Design and Analysis Procedure OCONEE - CSRG - 001.
- 8.3 Hanger Sketch 3-03A-1-0-2400A-H175
- 8.4 Hanger Calculation OSC-948 Rev. 20.

### 9. Calculation/Evaluation

Allowable loads per Vendor LCD for pipe protection saddle, 6" Fig. 161 per page C - C64 of Ref. 8.1 are,

1800 lbs. (Normal)	<	3450 lbs. Actual Normal Design Load.
(1800)(1.33) = 2400 lbs. (Upset)	<	3652 lbs. Actual Upset Design Load.
(1800)(1.5) = 2700 lbs. (Faulted)	<	3854 lbs. Actual Faulted Design Load.

The pipe saddle is only the Non-conforming item. All other hanger components are adequate per hanger Calculation OSC-948.

Consider reduce factor of safety 2 for Operability purpose.

Allowable Faulted load = (2.5)(Normal allow. 1800) = 4500 lbs. > 3854 lbs. Faulted Design Load. OK.  
The field inspection of the as installed pipe saddle did not observe any evidence of degradation, i.e. deformation etc.

The Support is past operable.

Center of the evaluation. This section provides the discussions needed to determine operability and the analysis of support operability. This section should include the following:

### 10. Compensatory Actions Required for Operability

None.

### 11. Conclusions

The Support is PAST OPERABLE.

Originated By: PHP4260: PATEL, PARSHOTTAM H Team: RAH8344 Group: CEN Date: 05/04/2000

Signature Type	Indiv	Team	Group	Date
Due Date:	05/18/2000			
Accepted By:	RAH8344	RAH8344	CEN	04/19/2000
Assigned To:	PHP4260	RAH8344	CEN	04/19/2000
Ready for Checked By:	RAH8344	RAH8344	CEN	05/10/2000
Checked By Assigned To:	JPP610C	RAH8344	CEN	05/10/2000
Checked By:	JPP610C	RAH8344	CEN	05/10/2000
Ready For Approval:	JPP610C	RAH8344	CEN	05/10/2000
Approval Assigned To:	RAH8344	RAH8344	CEN	05/10/2000
Approved By:	RAH8344	RAH8344	CEN	05/10/2000
Evaluated By:	RPT7314	LEN2127	RGC	05/10/2000

## **Reportability**

Responsible Group:

Status:

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Problem Reportable(Y,N,E):

Reportable Per:

Comments:

No Current Signatures For This Section

### **Investigation Report:**

Responsible Group:

Act Date:

Investigator:

Group:

Due Date:

Date Due to VP or Sta. Mgr:

Date Regulatory or Agency Rpt Due:

Date Investigation Report Approved:

NRC Cause Codes:

### **Problem Evaluation**

Event	Cause Code	Cause Description	Primary	Causing Groups
-------	------------	-------------------	---------	----------------

**Problem Evaluation From:** Resp. Group: CEN

Status: NotRequired

OEDB Checked: No

**OEDB Comments:**

**Remarks Comments:**

Signature Type	Indiv	Team	Group	Date
Due Date:	05/18/2000			
Assigned To:		RAH8344	CEN	04/18/2000

### **Corrective Actions**

**CA Seq. No: 1**

Resp Group	Status	Orig Group	Event Code	Prop CAC	Cause Code
CEN	Closed	CEN	F3	B3	YYY

### **Proposed Corrective Action:**

Evaluate the below identified discrepancy. Determine appropriate course of action (i.e., suitability for continued operation in this configuration or repair) prior to entering Mode 4 of 3EOC18. If it is determined that repair will not be effected this outage and the item is

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

determined to be non-conforming, the appropriate OBD/NC documentation must be entered into a present operability.

Generate additional corrective actions as required.

Per the problem description, "The pipe saddle (item# 1) of support 3-03A-1-0-2400A-H175 is nonconforming for the design loads. This support is located on 6" Emergency Feed Water line from motor driven FDW pump 3B. The ISI inspection reported that the subject pipe saddle is rotated 8 to 10 degrees counter clockwise from bottom centerline of pipe. The civil engineering review has found that this is not a service-induced discrepancy and the initial installation of the saddle may have been inadequate. However, while evaluating the saddle for the design loads it is found that the actual design loads are much greater than the allowable loads. Design loads on S/R are 3450 lbs normal, 3652 lbs upset, and 3854 lbs faulted. The allowable capacities on 6" Fig. 161 (item# 1) protection saddle are 1800 lbs normal, 2400 lbs upset, and 2700 lbs faulted per vendor LCD."

Originated By: SNS3927: SEVERANCE, SANDRA N Team: CAL7344 Group: CEN Date: 04/18/2000

Signature Type	Indiv	Team	Group	Date
Ready For Approval:	SNS3927	CAL7344	CEN	04/18/2000
Approval Assigned To:	CAL7344	CAL7344	CEN	04/18/2000
Approved By:	SNS3927	CAL7344	CEN	04/18/2000

**General:** Outage: 3EOC18 Mode: 4

### **Other Tracking Processes**

Type   Number   Text

### **Actual Corrective Action:**

Actual CAC: B1aStatus: Closed Due Date: 05/10/2000

OE-15019 has been implemented. It eliminates the non-conforming item on S/R# 3-03A-1-0-2400A-H175. This hanger is now OPERABLE.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 05/09/2000

Signature Type	Indiv	Team	Group	Date
Accepted By:	RAH8344	RAH8344	CEN	04/18/2000
Assigned To:	PHP4260	RAH8344	CEN	04/18/2000
Due Date:	05/10/2000			
Ready For Approval:	PAW4981	RAH8344	CEN	05/09/2000
Approval Assigned To:	RAH8344	RAH8344	CEN	05/09/2000
Approved By:	RAH8344	RAH8344	CEN	05/10/2000

## ***Final and Overall PIP Approval***

Responsible Group: CEN Status: Closed

Signature Type	Indiv	Team	Group	Date
Assigned To:			CEN	04/18/2000

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Signature Type	Indiv	Team	Group	Date
Accepted By:	SNS3927	CAL7344	CEN	04/18/2000
Approval Assigned To:		RAH8344	CEN	05/12/2000
Approved By:	RAH8344	RAH8344	CEN	05/15/2000

Any Supplemental Concurrence Signatures Above Do Not Affect PIP Closure.

Closure Document Type                      Closure Document No

### **Attachments**

### **Generic Applicability**

Responsible Group:                      Status:  
GO PIP No:

### **Assessment Remarks:**

No Current Signatures For This Section

### **Failure Prevention Investigation**

Quality of CA:                      Quality of Cause:                      Resp Group: SRG                      Status: Closed

### **Special Codes:**

N13

### **Comments**

Signature Type	Indiv	Team	Group	Date
Assigned To:			SRG	04/18/2000
Ready For Approval:	RWVASSEY	RTB7310	SRG	05/15/2000
Approval Assigned To:	RTB7310	RTB7310	SRG	05/15/2000
Approved By:	RWVASSEY	RTB7310	SRG	05/15/2000

### **Remarks**

No Remarks for this PIP.

### **Maintenance Rule**

Responsible Group: MSE                      Status: Closed

#### Maintenance Rule SSC

SC	Description	Risk Significant	Primary System
EFW	Emergency Feedwater System	Yes	Yes

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Equipment Group: C01  
Applicable Unit: Unit 3  
Functional Failure: No    MPFF: No    Repetitive MPFF: No

### **Functional Failure Comments:**

As discussed in the Past Operability, the support is past operable, therefore, there is no functional failure.

Originated By: SGB7361: BENESOLE, STEPHEN G Team: GKM7309 Group: MSE Date: 05/04/2000

### **MPFF Comments:**

### **Repetitive MPFF Comments:**

Reactor Trip: No    Safety System Actuation: No    Loss of Heat Decay Removal: No  
Force Outage Rate or Plant Transient: No    Loss Of Spent Fuel: No

### **Comments:**

Signature Type	Indiv	Team	Group	Date
Assigned To:	SGB7361	RJF2111	MSE	04/20/2000
Due Date:	06/14/2000			
Ready For Approval:	SGB7361	GKM7309	MSE	05/04/2000
Approval Assigned To:	RJF2111	RJF2111	MSE	05/04/2000
Approved By:	RJF2111	RJF2111	MSE	05/04/2000

End of the Document for PIP No: O-0-1376  
The status of this PIP is: Closed  
The duration of this PIP was: 27 days

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

PIP Serial No:	Action Category:	LER No:	Other Report:
O-00-01756	3		

### **Problem Identification**

**Discovered Time/Date:** 22:00 05/04/2000

**Occurred Time/Date:** 18:00

**Unit(s) Affected:**

<u>Unit</u>	<u>Mode</u>	<u>%Power</u>	<u>Unit Status</u>	<u>Remarks</u>
3	6	0	N/A	

**System(s) Affected:**

LPS Low Pressure Service Water

**Affected Equipment**

(No Equipment Affected)

**Location of Problem:**

Bldg: R Column Line: Elev: 814'

**Location Remarks:**

Northeast corner of RB elevator struct.

**Method Used to Discover Problem:**

ISI

**Brief Problem Description:**

Pipe Support No. 3-14B-0-2479A-H19 Cannot Carry Its Design Loads

**Detail Problem Description:**

Hanger 3-14B-0-2479A-H19 provides support to six 8" diameter LPSW pipes. These LPSW lines are the supply and return cooling to the Unit 3 RBCU's. ISI on this support found numerous discrepancies. The most significant were substandard connections to the elevator structure column. Bolts for members framing into the elevator structure column interfered with H19's channels being welded to the W8 column as shown on the support sketch. The 2 channels were severely notched (top and 2nd one down from top) to avoid the existing structural bolts. This notching makes the channels incapable of restraining there design loads.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 05/05/2000

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

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

**Immediate Corrective Actions:**

Civil Engineering is evaluating the operability of the LPSW system and determining required repairs to support 3-14B-0-2479A-H19. It is highly suspected that adjacent support 3-14B-0-2479A-H18 may have similiar substandard connections to the W8 column. Work request 98129386 has been written to remove the elevator shaft siding to facilitate inspection of hanger H18.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 05/05/2000

S/R#3-14B-0-2479A-H18 was inspected and it had similar deficient connections as adjacent support H19. Only about 3" of the top C6x8.2 web was connected to the W12 column, and about 2½" of the web for the middle C6x8.2 was connected to the W12 column.

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

OE-15071 has been issued to repair both of these hangers.

Last Updated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 05/09/2000

### **Immediate Corrective Action Documents / Work Orders:** WR# 98129386

	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	PAW4981	RAH8344	CEN	05/05/2000
Problem Entered By:	PAW4981	RAH8344	CEN	05/05/2000

### **Screening**

Is the Problem Significant? No Action Category: 3

OEP No:

Other Report Nos:

### **Event Codes:**

F3 Equipment Out of Norm

### **Screening Remarks:**

This event has been reviewed by the CST and found not to meet the MSE significance criteria.

Screening members present for this review: Sandy Severance (ENG), Kenny McCorkle (MNT & WCG), and Mac Haynes (OPS)

Originated By: RWV1470: VASSEY, RAY W Team: RTB7310 Group: SRG Date: 05/08/2000

### **Assignments:**

Responsible Group(s) for Problem Evaluation:	CEN	Civ, Elect., Nuclear
Responsible Group for Present Operability:	N/A	
Responsible Group for Past Operability:	RGC	Regulatory Compliance
Responsible Group for Reportability:	RGC	Regulatory Compliance
Responsible Group for Overall PIP Approval:	CEN	Civ, Elect., Nuclear

<u>Signature Type</u>	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Screened By:	SNS3927	TDC7309	MSE	05/08/2000

### **Present Operability**

Responsible Group: Status:

Sys/Comp Operable? (Y,N,C,E,T):

Required Mode:



# ***Problem Investigation Process Oconee Nuclear Station***

Comments:

**No Current Signatures For This Section**

## **Past Operability:**

Responsible Group: CEN Status: Closed

Sys/Comp Operable?(Y,N,C,E,T): Y

Required Mode:

Comments:

The Oconee Nuclear Station (ONS) currently uses .5% damping spectra for OBE and SSE in the Reactor Building for piping analysis and pipe supports design.

However, alternate damping values for response spectrum analysis of ASME class 1, 2, and 3 piping are given in ASME Code Case N-411-1 (Variable damping spectra; 5% damping from 0 to 10 Hz; 5% damping linearly reduce to 2% damping from 10 Hz to 20 Hz; and 2% damping from 20 Hz to ZPA value.). These damping values are applicable for OBE and SSE. They are also independent of pipe size.

The Nuclear industry has been applying these higher damping values to their existing piping systems to reduce seismic loads for design of piping and pipe supports systems. The use of Code Case N-411-1 is acceptable to the NRC subject to the condition described in the NRC Regulatory Guide 1.84 which primarily prohibits the use of variable damping spectra in multiple responses spectrum analysis. In this instance, the ONS only uses these higher damping spectra for past operability evaluation of two LPSW pipe supports without multiple responses technique.

Currently, ONS does not possess N411-1 damping spectra for the Reactor Bldg. Therefore, a conversion from the existing .5% damping spectra to the variable damping spectra were made. The existing .5% damping was inadvertently converted all to 5% damping from 0 Hz to ZPA value. However, it is considered acceptable due to the fact that 90% of support loads is from the first few modes which are less than 10 Hz.

The two seismic loadcase combinations (Y +X or Y+Z) are in accordance with the ONS piping specification OS-27B.00-00-0001. The Spec. specifies that the horizontal spectra shall be considered to act in both the N-S and E-W directions, but not simultaneously.

The results of pipe supports evaluation show that they are past operable. The piping is past operable without further justification.

Last Updated By: PCC2458: CHAU, PETER C Team: RAH8344 Group: CEN Date: 06/19/2000

Last Updated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 06/14/2000

Last Updated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 06/12/2000

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

### 1. Statement of Problem

-----

Determine Past Operability of LPSW supply and return piping to the 3A, 3B, & 3C RBCU's due to degraded condition of pipe supports 3-14B-0-2479A-H18 & -H19.

### 2. Relation to QA Condition

-----

This piping and its supports are QA Condition 1.

### 3. Applicable codes And standards

-----

Applicable codes and standards for piping and pipe support analysis are given in OS-0027B.00-00-0001 and OSS-0027.00-00-0001 respectively.

### 4. Evaluation Inputs/Methods Used

-----

- . Computer analyses of the piping was performed using SUPERPIPE.
- . Computer analyses of the supports was performed using GT STRUDL.
- C. Hand calculations were performed where needed to qualify results of computer analysis
- D. Appropriate engineering judgements were made during the qualification process. These judgements are documented in the calculation body of this past operability.

### 5. Other Evaluation Criteria

-----

None

### 6. Applicable Licensing References

-----

- A. UFSAR Chapter 3
- B. UFSAR Chapter 15
- C. Generic Letter 91-18
- D. OSS-0254.00-00-1026 (summarizes RBCU design & licensing basis requirements)
- E. OSS-0254.00-00-4005 (summarizes plant design basis event requirements)

### 7. Assumptions

-----

stated within body of calculation

# ***Problem Investigation Process Oconee Nuclear Station***

## 8. References

---

- A. OSC-7384.04, "Unit 3 GL 96-06 Water Hammer Operability Evaluation: Operability Evaluation for Supports Associated with Train 3A and 3C Coolers ..."
- B. OSC-7384.02, "Unit 3 GL 96-06 Water Hammer Operability Evaluation: Operability Evaluation for Supports and Equipment Attached to Reactor Building Platform Steel"
- C. AISC Manual of Steel Construction, 6th Edition

## 9. Calculation/Evaluation

---

The LPSW piping under evaluation are the supply and return cooling lines to the 3A, 3B, and 3C RBCU's. Three loads must be evaluated to demonstrate past operability: (1) waterhammer loads from a LOCA/LOOP, (2) thermal expansion of the LPSW piping in the post-LOCA environment, and (3) seismic loads.

### Licensing Basis for Waterhammer Loads

\*\*\*\*\*

The safety function of the RBCU's is to mitigate a Loss of Coolant Accident (LOCA) (Ref. 6D). Per OSS-0254.00-00-4005, the LOCA includes a simultaneous Loss of Offsite Power (LOOP). Generic Letter 96-06 identified that waterhammers would occur in the LPSW piping in a LOCA/LOOP scenario. The as-found condition of S/R# 3-14B-0-2479A-H18 & -H19 will be demonstrated as past operable to restrain the resulting waterhammer forces from a LOCA/LOOP.

### Licensing Basis for LOCA Thermal Loads

\*\*\*\*\*

Reactor Building temperatures elevate during a LOCA. This elevated temperature causes thermal expansion of the LPSW piping while it is relied upon to mitigate the LOCA. The as-found condition of S/R# 3-14B-0-2479A-H18 & -H19 will be demonstrated as past operable to restrain the resulting LOCA thermal expansion loads.

### Licensing Basis for Seismic Loads

\*\*\*\*\*

UFSAR Section 3.2.2 states the simultaneous occurrence of a LOCA and the maximum hypothetical earthquake (MHE) is only a design criteria. A LOCA is not postulated to occur simultaneously with a MHE during accident analysis. However, UFSAR Section 3.2.2 requires the Unit 3 RBCU's and the LPSW supply and return piping to withstand a MHE. The as-found condition of the LPSW piping will be demonstrated as past operable for a MHE seismic forces.

### Load Combinations

\*\*\*\*\*

The waterhammer, LOCA thermal, and seismic loads will be evaluated independent of the other load conditions. This is the approach taken by the operability evaluation performed on this LPSW piping for Generic Letter 96-06. Attachment A to OSC-7371.01 documents the basis for not combining seismic and waterhammer forces. It states "UFSAR Section 3.2.2 states that: 'A LOCA is not postulated to occur simultaneously with a maximum hypothetical earthquake during accident analysis'. Operability is based on the ability to mitigate the consequences of Chapter 15 design basis accidents, and other accidents analyzed in the licensing basis. Therefore, for the GL 96-06 operability determination, LOCA/(LOOP) loads do not have to be considered simultaneously with seismic loads". This same basis can be used for not combining seismic and LOCA thermal loads.

Waterhammer loads and LOCA thermal loads do not have to be combined for reason given on page 17 of OSC-7371.01. In a LOCA/LOOP event, the waterhammer loads occur within about 33 seconds of the event initiation. This short duration is not enough time for bulk heat-up of the piping during accident conditions.

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

For these reasons, each loading type will be evaluated and discussed independently.

### Degraded Conditions of S/R# 3-14B-0-2479A-H18

\*\*\*\*\*

There were two degraded conditions that required a past operability evaluation of S/R# 3-14B-0-2479A-H18.

- (1) Connection between top C6x8.2 and W12 column. The flanges and web of the C6x8.2 had been torched cut to avoid interference with structural bolting on the W12 column. There was only 3" of the C6x8.2's web welded to the W12 column.
- (2) C6x8.2 beneath pipes B & E was notched at its connection to the W12 column similar to the top C6x8.2. It only had about 3" of web connecting it to the W12 column.

### Degraded Conditions of S/R# 3-14B-0-2479A-H19

\*\*\*\*\*

There were three degraded conditions that required a past operability evaluation of S/R# 3-14B-0-2479A-H19.

- (1) Connection between top C6x8.2 and W8 column. The flanges and web of the C6x8.2 had been torched cut to avoid interference with structural bolting on the W8 column. There was only 2" of the C6x8.2's web welded to the W8 column. In addition, there was a hole torch cut in the web of the C6x8.2 about 12" from its end (toward W8) to avoid bolting for an elevator siding support girt. Notch was about 2" x 5/4". The support bracket for this girt was welded to the C6x8.2 for about 6" in length, reinforcing the notch in the web.
- (2) C6x8.2 beneath pipes A & D was only connected to the W8 with a single fillet weld along top side of its web.
- (3) C6x8.2 beneath pipes B & E was notched at its connection to the W8 column similar to the top C6x8.2. It only had about 2" of web connecting it to the W8 column.

A fourth condition was also considered in the evaluation of H19.

- (4) Gap between one top lug and C6x8.2 on pipe D was much greater than 1/8". Therefore, all axial load is applied to bottom lugs on pipe D.

\*\*\*\*\*

### Waterhammer Evaluation of S/R# 3-14B-0-2479A-H19

\*\*\*\*\*

Waterhammer operability evaluation of the un-degraded condition of S/R# 3-14B-0-2479A-H19 is contained in reference 8A & 8B. From these calculations only the following load combinations must be evaluated:

1. Gravity + SRSS of Waterhammer on Pipes A & C
2. Gravity + SRSS of Waterhammer on Pipes D & F
3. Gravity + Waterhammer on Pipe B
4. Gravity + Waterhammer on Pipe E

S/R# 3-14B-0-2479A-H19 was modeled in GT STRUDL. The waterhammer loads for each pipe as given in OSC-7384.04 (pipes A, C, D, & F) and OSC-7384.02 (pipes B & D) were used in the GT STRUDL input model and the appropriate load combinations were made. The GT STRUDL output results will be added to OSC-1344-07 during FR&DU of OE-15071 (minor modification that repaired H18 & 19).

### \*\*\*Maximum Member Stresses\*\*\*

Maximum reported member normal stress is 32918 psi (member 923) which is less than 36,000 psi, therefore acceptable.

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Stress at notched portions of the C6x8.2 must be evaluated separately. Notched C6x8.2's are located at joints 143 and 146. The engineering judgement is made that connection at joint 146 is critical. This judgement is based on the top C6x8.2 was reinforced by a girt support bracket. This bracket had an angle shape of 3" x 6" x 1/4". It was welded to the C6x8.2 and to the W8. This provided additional capacity for top C6x8.2's connection to the W8.

Capacity of connection at Joint 146 will be controlled by vertical shear (Fy). The 2" wide web will act as a pinned connection, but it must transfer the vertical shear load to the un-notched section. The length of the 2" web tab was about 1 1/2"-3".

Vertical shear at Joint 146 from gravity loads only:  $F_y = 399$  lbs

Thickness of C6x8.2 web = 0.20 in (Ref. 8C)

$$S = 1/6 (2) (.2)^2 = 0.0133 \text{ in}^3$$

$$\text{Distance from face of W8 where yielding stress is reached} = (36000)(0.0133)/399 = 1.20 \text{ in}$$

$$\text{For a rectangular section, plastic modulus } Z = 1/4 bh^2 = 1/4 (2)(.2)^2 = 0.02$$

$$\text{Ratio } Z/S = 0.02 / 0.0133 = 1.5$$

This connection has 50% additional capacity after yielding has been reached in the extreme fibers before a plastic hinge will be formed.

Maximum Vertical Shear at Joint 146 = 502 lbs

$$\text{Ratio of Max Shear / Gravity Shear} = 502 / 399 = 1.26$$

Engineering judgement is made that connection at joint 146 would have restrained waterhammer forces because ratio of max shear to gravity shear is less than ratio of Z/S. Exact measurements of the width & depth profile of the notched section was not taken. No deformation was observed at this connection during the inspections, which indicates yielding was not reached for gravity loads. If we assume extreme fibers of this connection were almost at yield stress, then there is enough reserve capacity in the cross-section to absorb waterhammer forces without forming a plastic hinge. Since no plastic deformation is evident from past gravity loading, joint 146 is acceptable for an increase in shear load of 103 lbs due to waterhammer.

All members are judged acceptable for waterhammer loads

### **\*\*\*Weld Stresses\*\*\***

Critical weld is at connection of C6x8.2 beneath pipes A & D to vertical C6x8.2 (GT STRUDL joint 154).

Load Case 4 is worse loading.

Forces on Weld:

- $F_x = 969$  lbs
- $F_y = 1551$  lbs
- $F_z = 394$  lbs
- $M_x = 15,988$  in-lbs
- $M_y = 1130$  in-lbs
- $M_z = 0$  in-lbs (torsion)

C6x8.2 is welded all around along inside edges and along the top side of the web with a 1/4" fillet weld.

Weld Properties:

- $A = 14.75$  in
- $\bar{y} = 1.60$  in
- $I_x = 3.42$  in<sup>3</sup>
- $S_x \text{ top} = 10.7$  in<sup>2</sup>
- $S_x \text{ bot} = 2.13$  in<sup>2</sup>
- $S_y = 19.85$  in<sup>2</sup>

$$\text{Resultant Weld Force} = fr = \text{SQRT}[(394 / 14.75 + 15988 / 10.7 + 1130 / 19.85)^2 + (969/14.75)^2 + (1551/14.75)^2]$$

$$fr = 1583 \text{ lbs/in}$$

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Note Sx top was used because bottom portion of weld is in compression, and if it yields, flanges of channel will still bear against face of vertical C6x8.2.

$wreq'd = 1583 / ((.707)(27000)) = .08 \text{ in} < 0.25" \text{ existing OK.}$

Since weld at joint 154 is adequate, all remaining welds are adequate by comparison.

S/R# 3-14B-0-2479A-H19 is PAST OPERABLE for waterhammer loads.

\*\*\*\*\*  
**Waterhammer Evaluation of S/R# 3-14B-0-2479A-H18**  
 \*\*\*\*\*

S/R# 3-14B-0-2479A-H18 is judged past operable for waterhammer loads by comparison to analysis of S/R# 3-14B-0-2479A-H19. Supports H18 & H19 are of similar construction, and the degradation on H18 is not as severe as H19. The total gravity loads on H18 are less than the total gravity loads on H19. A comparison of the waterhammer loads between H18 & H19 is tabulated below.

		Waterhammer Loads		Comments
		H18	H19	
Pipe A	Fx:	0 lbs	626 lbs	H19 higher
	Fy:	351 lbs	379 lbs	H19 higher
	Fz:	414 lbs	0 lbs	H18 higher
Pipe B	Fy:	486 lbs	786 lbs	H19 higher
	Fz:	0 lbs	206 lbs	H19 higher
Pipe C	Fy:	168 lbs	271 lbs	H19 higher
	Fz:	0 lbs	1511 lbs	H19 higher
Pipe D	Fx:	0 lbs	1376 lbs	H19 higher
	Fy:	350 lbs	694 lbs	H19 higher
	Fz:	2021 lbs	0 lbs	H18 higher
Pipe E	Fy:	648 lbs	557 lbs	H18 higher
	Fz:	0 lbs	303 lbs	H19 higher
Pipe F	Fy:	254 lbs	449 lbs	H19 higher
	Fz:	0 lbs	3970 lbs	H19 higher

Overall waterhammer loading on H18 is smaller than on H19. Therefore, it is judged Past Operable for waterhammer loads by comparison to S/R# 3-14B-0-2479A-H19.

\*\*\*\*\*  
**LOCA Evaluation of S/R# 3-14B-0-2479A-H18**  
 \*\*\*\*\*

LOCA thermal loads on support H18 are small compared to the waterhammer loads. Since H18 is past operable for the waterhammer

## ***Problem Investigation Process***

### ***Oconee Nuclear Station***

loads, the engineering judgement is made that H18 is Past Operable for the LOCA loads by comparison. The load comparison is summarized below:

	Waterhammer Loads	LOCA Loads	Comments
Pipe A	Fy: 351 lbs Fz: 414 lbs	16 lbs 0 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe B	Fy: 486 lbs	0 lbs	Waterhammer loads are higher
Pipe C	Fy: 168 lbs	3 lbs	Waterhammer loads are higher
Pipe D	Fy: 350 lbs Fz: 2021 lbs	51 lbs 46 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe E	Fy: 648 lbs	3 lbs	Waterhammer loads are higher
Pipe F	Fy: 254 lbs	7 lbs	Waterhammer loads are higher

S/R# 3-14B-0-2479A-H18 is PAST OPERABLE for LOCA loads.

\*\*\*\*\*

OCA Evaluation of S/R# 3-14B-0-2479A-H19

\*\*\*\*\*

LOCA thermal loads on support H19 are small compared to the waterhammer loads. Since H19 is past operable for the waterhammer loads, the engineering judgement is made that H19 is Past Operable for the LOCA loads by comparison. The load comparison is summarized below:

	Waterhammer Loads	LOCA Loads	Comments
Pipe A	Fx: 626 lbs Fy: 379 lbs	25 lbs 0 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe B	Fy: 786 lbs Fz: 206 lbs	0 lbs 0 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe C	Fy: 271 lbs Fz: 1511 lbs	0 lbs 0 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe D	Fx: 1376 lbs Fy: 694 lbs	490 lbs 53 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe E	Fy: 557 lbs Fz: 303 lbs	14 lbs 82 lbs	Waterhammer loads are higher Waterhammer loads are higher
Pipe F	Fy: 449 lbs Fz: 3970 lbs	31 lbs 225 lbs	Waterhammer loads are higher Waterhammer loads are higher

# *Problem Investigation Process*

## *Oconee Nuclear Station*

S/R# 3-14B-0-2479A-H19 is PAST OPERABLE for LOCA loads.

\*\*\*\*\*  
 Seismic Evaluation of S/R# 3-14B-0-2479A-H19  
 \*\*\*\*\*

The piping analysis model for each pipe A through F was rerun to reduce the level of design conservatism for past operability purposes. A summary of each model is given below:

Pipe	Math Model	Analysis Calculation
A	3-14B-08	OSC-1344-06 (Vol. A of F)
B	3-14B-14B	OSC-2056
C	3-14B-12	OSC-1344-06 (Vol. E of F)
D	3-14B-09	OSC-1344-06 (Vol. B of F)
E	3-14B-14A	OSC-2056
F	3-14B-13	OSC-1344-06 (Vol. F of F)

Each design conservatism that was reduced is discussed separately.

- (1) Increased piping damping from 0.5% to 5% of critical damping.
- (2) Separated east/west earthquake from north/south earthquake in the seismic analysis. This created two seismic load cases:
  - (a) Vertical + east/west
  - (b) Vertical + north/south

Loads on each pipe on H19 are summarized in the table below.

		SSE Y + X	SSE Y + Z
Pipe A	Fx:	79 lbs	24 lbs
	Fy:	41 lbs	86 lbs
Pipe B	Fy:	22 lbs	159 lbs
	Fz:	194 lbs	359 lbs
Pipe C	Fy:	42 lbs	89 lbs
	Fz:	192 lbs	435 lbs
Pipe D	Fx:	79 lbs	19 lbs
	Fy:	46 lbs	56 lbs
Pipe E	Fy:	47 lbs	46 lbs
	Fz:	160 lbs	403 lbs



# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Pipe F	Fy:	51 lbs	150 lbs
	Fz:	168 lbs	397 lbs

Same GT STRUDL model of H19 analyzed for waterhammer loads was analyzed for these seismic forces. Design of H19 considered peak seismic load on each pipe acting at same time. This is very conservative. The piping geometry for each supply/return line to the RBCU's is similar, but not exact. These differences will produce different mode shapes and responses to seismic accelerations. It is unrealistic to assume the peak seismic load on each pipe will occur at exactly the same instant in time for all six pipes. Therefore, the SRSS method will be used to combine the effects of the seismic loads on the six pipes supported by H19.

### **\*\*\*Maximum Member Stresses\*\*\***

Maximum reported member normal stress is 23980 psi (member 379) which is less than 36,000 psi, therefore acceptable.

As in the evaluation for waterhammer loads, stress at notched portions of the C6x8.2 must be evaluated separately. Notched C6x8.2's are located at joints 143 and 146. The engineering judgement is again made that connection at joint 146 is critical.

Capacity of connection at Joint 146 will be controlled by vertical shear (Fy). The 2" wide web will act as a pinned connection, but it must transfer the vertical shear load to the un-notched section. The length of the 2" web tab was about 1½"-3".

Vertical shear at Joint 146 from gravity loads only:  $F_y = 399$  lbs  
Max. Vertical shear at Joint 146 for gravity + seismic loads:  $F_y = 508$  lbs

Ratio of Max Shear / Gravity Shear =  $508 / 399 = 1.27$

Thickness of C6x8.2 web = 0.20 in (Ref. 8C)  
 $S = 1/6 (2) (.2)^2 = 0.0133 \text{ in}^3$

For a rectangular section, plastic modulus  $Z = 1/4 bh^2 = 1/4 (2)(.2)^2 = 0.02$   
Ratio  $Z/S = 0.02 / 0.0133 = 1.5$

This connection has 50% additional capacity after yielding has been reached in the extreme fibers before a plastic hinge will be formed. Engineering judgement is made that connection at joint 146 would have restrained seismic forces because ratio of max shear to gravity shear is less than ratio of Z/S. Exact measurements of the width & depth profile of the notched section was not taken. No deformation was observed at this connection during the inspections, which indicates yielding was not reached for gravity loads. If we assume extreme fibers of this connection were almost at yield stress, then there is enough reserve capacity in the cross-section to absorb seismic forces without forming a plastic hinge. Since no plastic deformation is evident from past gravity loading, joint 146 is acceptable for an increase in shear load of 109 lbs due to seismic loads.

All members are judged acceptable for seismic loads.

### **\*\*\*Weld Stresses\*\*\***

Critical weld is at connection of C6x8.2 beneath pipes B & E to vertical C6x8.2 (GT STRUDL joint 155).

Load Case 4 is worse loading.

Forces on Weld:	$F_x = 1$ lb (Negligible)
	$F_y = 1093$ lbs
	$F_z = 573$ lbs
	$M_x = 11,911$ in-lbs
	$M_y = 42$ in-lbs

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Mz = 0 in-lbs (torsion)

C6x8.2 is welded all around along inside edges and along the top side of the web with a 1/4" fillet weld.

Weld Properties:

A = 14.75 in  
ybar = 1.60 in  
Ix = 3.42 in<sup>3</sup>  
Sx top = 10.7 in<sup>2</sup>  
Sx bot = 2.13 in<sup>2</sup>  
Sy = 19.85 in<sup>2</sup>

Resultant Weld Force = fr = SQRT[ (573 / 14.75 + 11911 / 10.7 + 42 / 19.85)<sup>2</sup> + (1093/14.75)<sup>2</sup> ]

fr = 1157 lbs/in

Note Sx top was used because bottom portion of weld is in compression, and if it yields, flanges of channel will still bear against face of vertical C6x8.2.

wreq'd = 1157 / ((.707)(27000)) = .06 in < 0.25" existing OK.

Since weld at joint 155 is adequate, all remaining welds are adequate by comparison.

✓R# 3-14B-0-2479A-H19 is PAST OPERABLE for seismic loads.

\*\*\*\*\*  
Seismic Evaluation of S/R# 3-14B-0-2479A-H18  
\*\*\*\*\*

The same piping reanalyses performed for H19 were also performed for H18. The reduced seismic loads are summarized below.

		SSE Y + X	SSE Y + Z
Pipe A	Fy:	26 lbs	45 lbs
	Fz:	8 lbs	56 lbs
Pipe B	Fy:	30 lbs	78 lbs
Pipe C	Fy:	30 lbs	48 lbs
Pipe D	Fy:	27 lbs	29 lbs
	Fz:	18 lbs	111 lbs
Pipe E	Fy:	29 lbs	29 lbs
Pipe F	Fy:	29 lbs	67 lbs

The engineering judgement is made that H18 is PAST OPERABLE for seismic loads by comparison to seismic evaluation of H19. Supports H18 & H19 are of similar construction, and the degradation on H18 is not as severe as H19. The total gravity loads on H18 are less than the total gravity loads on H19. Seismic loads applied to support H18 are much lower than those applied to H19.

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

S/R# 3-14B-0-2479A-H18 is PAST OPERABLE for seismic loads

\*\*\*\*\*

### Analysis Summary

\*\*\*\*\*

Both S/R# 3-14B-0-2479A-H18 & S/R# 3-14B-0-2479A-H19 are PAST OPERABLE for waterhammer loads, LOCA loads, and seismic loads in their as-found condition.

### 10. Compensatory Actions Required for Operability

-----  
None

### 11. Conclusions

-----  
S/R# 3-14B-0-2479A-H18 & S/R# 3-14B-0-2479A-H19 are PAST OPERABLE in their as-found condition, therefore, LPSW supply & return piping to 3A, 3B, and 3C RBCU's are PAST OPERABLE.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 06/08/2000

Signature Type	Indiv	Team	Group	Date
Accepted By:	RAH8344	RAH8344	CEN	05/18/2000
Assigned To:	PAW4981	RAH8344	CEN	05/18/2000
Due Date:	06/21/2000			
Checked By Assigned To:	JPP610C	RAH8344	CEN	06/20/2000
Ready for Checked By:	PCC2458	RAH8344	CEN	06/20/2000
Checked By:	JPP610C	RAH8344	CEN	06/20/2000
Ready For Approval:	JPP610C	RAH8344	CEN	06/20/2000
Approval Assigned To:	RAH8344	RAH8344	CEN	06/20/2000
Approved By:	RAH8344	RAH8344	CEN	06/20/2000
Evaluated By:	RVGAMBRE	LEN2127	RGC	06/22/2000

## **Reportability**

Responsible Group: RGC Status: Open

Problem Reportable(Y,N,E):

Reportable Per:

Comments:

This issue is potentially reportable, depending on if the hanger discrepancies make the associated line(s) to the RBCUs inoperable.

Originated By: RPT7314: TODD, RANDALL P Team: LEN2127 Group: RGC Date: 05/08/2000

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Signature Type	Indiv	Team	Group	Date
Assigned To:	RPT7314	LEN2127	RGC	05/08/2000

### **Investigation Report:**

Responsible Group:                      Act Date:

Investigator:                              Group:

Due Date:

Date Due to VP or Sta. Mgr:

Date Regulatory or Agency Rpt Due:

Date Investigation Report Approved:

NRC Cause Codes:

### **Problem Evaluation**

Event	Cause Code	Cause Description	Primary	Causing Groups
3	F4b	Documents not followed correctly	Yes	N/A

**Problem Evaluation From:** Resp. Group: CEN      Status: Closed      OEDB Checked: No

Problems on S/R# 3-14B-0-2479A-H18 & -H19 were due to poor quality workmanship during their construction. Apparently, changes were made to the support configurations without approval from Engineering. This error occurred over 20 years ago. Therefore, no detailed human error apparent cause will be completed. An apparent cause code of F4b, "Documents Not Followed Correctly" was assigned.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 05/25/2000

**OEDB Comments:**

**Remarks Comments:**

Signature Type	Indiv	Team	Group	Date
Due Date:	06/03/2000			
Accepted By:	RAH8344	RAH8344	CEN	05/19/2000
Assigned To:	PAW4981	RAH8344	CEN	05/19/2000
Ready For Approval:	PAW4981	RAH8344	CEN	05/25/2000
Approval Assigned To:	RAH8344	RAH8344	CEN	05/25/2000
Approved By:	RAH8344	RAH8344	CEN	05/30/2000

# Problem Investigation Process

## Oconee Nuclear Station

### Corrective Actions

#### CA Seq. No: 1

Resp Group	Status	Orig Group	Event Code	Prop CAC	Cause Code
CEN	Closed	MSE	F3	B3	YYY

#### **Proposed Corrective Action:**

Ensure that all issues associated with hanger 3-14B-0-2479A-H19, which provides support to six 8" diameter LPSW pipes associated with cooling to the Unit 3 RBCU's, are resolved prior to reaching Mode 4 from 3 EOC 18. If all issues are not resolved, have PIP rescreened for a present operability.

Generate additional corrective actions as required.

Originated By: SNS3927: SEVERANCE, SANDRA N Team: TDC7309 Group: MSE Date: 05/08/2000

Signature Type	Indiv	Team	Group	Date
Ready For Approval:	SNS3927	TDC7309	MSE	05/08/2000
Approval Assigned To:	TDC7309	TDC7309	MSE	05/08/2000
Approved By:	SNS3927	TDC7309	MSE	05/08/2000

**General:** Outage: 3EOC18 Mode: 4

#### **ther Tracking Processes**

Type Number TextMN OE-15071 Modify LPSW Hangers

#### **Actual Corrective Action:**

Actual CAC: B1aStatus: Closed Due Date: 05/12/2000

OE-15071 has been issued to perform necessary repairs to S/R# 3-14B-0-2479A-H19 & S/R# 3-14B-0-2479A-H18 to return them to Operable status. This minor mod has a mode 4 startup requirement, therefore, this PIP CA can be closed.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 05/09/2000

Signature Type	Indiv	Team	Group	Date
Accepted By:	RAH8344	RAH8344	CEN	05/09/2000
Assigned To:	PAW4981	RAH8344	CEN	05/09/2000
Due Date:	05/12/2000			
Approval Assigned To:	RAH8344	RAH8344	CEN	05/09/2000
Ready For Approval:	PAW4981	RAH8344	CEN	05/09/2000
Approved By:	RAH8344	RAH8344	CEN	05/09/2000

#### CA Seq. No: 2

Resp Group	Status	Orig Group	Event Code	Prop CAC	Cause Code
CEN	Closed	CEN	F3	B9	YYY

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

**Proposed Corrective Action:**

Generate Work Orders to inspect similar LPSW supports on Units 1 and 2. Document inspection results and take further corrective actions as required.

Originated By: RAH8344: HEINECK, ROBERT A Team: RAH8344 Group: CEN Date: 05/18/2000

Signature Type	Indiv	Team	Group	Date
Ready For Approval:	RAH8344	RAH8344	CEN	05/18/2000
Approval Assigned To:	RAH8344	RAH8344	CEN	05/18/2000
Approved By:	RAH8344	RAH8344	CEN	05/18/2000

**General:**Outage: IEOC19

Mode: 4

**Other Tracking Processes**

Type    Number    Text

**Actual Corrective Action:**

Actual CAC: Status: Open

Due Date: 08/02/2000

Signature Type	Indiv	Team	Group	Date
Due Date:	08/02/2000			
Accepted By:	RAH8344	RAH8344	CEN	05/18/2000
Assigned To:	PAW4981	RAH8344	CEN	05/18/2000

### **Final and Overall PIP Approval**

Responsible Group: CEN

Status: Screened

Signature Type	Indiv	Team	Group	Date
Assigned To:			CEN	05/08/2000
Accepted By:	SNS3927	CAL7344	CEN	05/10/2000

Any Supplemental Concurrence Signatures Above Do Not Affect PIP Closure.

Closure Document Type

Closure Document No

### **' ttachments**

### **Generic Applicability**

Responsible Group:

Status:

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

GO PIP No:

### **Assessment Remarks:**

No Current Signatures For This Section

### **Failure Prevention Investigation**

Quality of CA:                      Quality of Cause:                      Resp Group: SRG                      Status: Closed

### **Special Codes:**

N12

### **Comments**

Signature Type	Indiv	Team	Group	Date
Assigned To:			SRG	05/08/2000
Ready For Approval:	RWVASSEY	RTB7310	SRG	05/30/2000
Approval Assigned To:	RTB7310	RTB7310	SRG	05/30/2000
Approved By:	RWVASSEY	RTB7310	SRG	05/30/2000

### **Remarks**

No Remarks for this PIP.

### **Maintenance Rule**

Responsible Group: MSE                      Status: Open

#### **Maintenance Rule SSC**

SSC	Description	Risk Significant	Primary System
LPS	Low Pressure Service Water System		Yes

Equipment Group:

Applicable Unit:

Functional Failure: Yes    MPFF: No                      Repetitive MPFF: No

**Functional Failure Comments:**

**MPFF Comments:**

**Repetitive MPFF Comments:**

Reactor Trip: No

Safety System Actuation: No

Loss of Heat Decay Removal: No

# ***Problem Investigation Process***

## ***Oconee Nuclear Station***

Force Outage Rate or Plant Transient: No

Loss Of Spent Fuel: No

### **Comments:**

Signature Type	Indiv	Team	Group	Date
Assigned To:	VBB4478	BGD7309	MSE	05/08/2000
Due Date:	06/29/2000			

End of the Document for PIP No: O-0-1756  
The status of this PIP is: Screened  
The duration of this PIP was: 15 days



## **10.0 Class 1 and 2 Repairs and Replacements**

As required by ASME Section XI 1989 Edition, no Addenda, a record (Form NIS-2) of the Class 1 and Class 2 Repairs and Replacements for work performed from December 20, 1998 through May 22, 2000 is provided and is included in this section of the report. The individual work request documents are on file at Oconee Nuclear Station.

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

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

1a. Date 5-13-00  
 Sheet 1 of 4

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98229943  
 Repair Organization Job # \_\_\_\_\_

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or-MM #: 33054

4. (a) Identification of System: MS

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>SIR</u> <u>3-01A-0-2441-H17</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
B	<u>SIR</u> <u>3-01A-0-2441-H16</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>Yes</u>
C	<u>SIR</u> <u>3-01A-0-2441-H4</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>Yes</u>
D	<u>SIR</u> <u>3-01A-0-2441-H3</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
E	<u>SIR</u> <u>3-01A-0-2441-R9</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>Yes</u>
F							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>Yes</u>

## Form NIS-2 (Back)

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

Modified S/R 3-01A-0-2441-H17 IAW NSM 33054  
 Modified S/R 3-01A-0-2441-H16 IAW NSM 33054  
 Modified S/R 3-01A-0-2441-H4 IAW NSM 33054  
 Modified S/R 3-01A-0-2441-H3 IAW NSM 33054  
 7. Description of Work Modified S/R 3-01A-0-2441-R9 IAW NSM 33054

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

S. J. Mason

Date 5-14, 2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M.B. Chapman  
 Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 5-15-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company526 S. Church Street, Charlotte NC 28201-10061a. Date 5-13-00Sheet 2 of 42. Plant Address: OCONEE NUCLEAR STATION7800 ROCHESTER HWY, SENECA, S.C. 296722a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)3. Work Performed By: Duke Power CompanyAddress: 526 S. Church Street, Charlotte NC 28201-10063a. Work Order #: 98229943

Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A3b. NSM or MM #: 330544. (a) Identification of System: MS4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	Snubber on S/R 3-01A-0-2441-R9(D)	Grinnell	9452	NA	NA	NA	Repaired, Replaced, Replacement	<u>No</u> Yes
B	Snubber on S/R 3-01A-0-2441-R9(D)	Lisega	61297-08	NA	NA	NA	Repaired, Replaced, Replacement	<u>No</u> Yes
C	Snubber on S/R 3-01A-0-2441-R9(C)	Grinnell	9453	NA	NA	NA	Repaired, Replaced, Replacement	<u>No</u> Yes
D	Snubber on S/R 3-01A-0-2441-R9(C)	Lisega	614153/20	NA	NA	NA	Repaired, Replaced, Replacement	<u>No</u> Yes
E	Snubber on S/R 3-01A-0-2441-R9(B)	Grinnell	Unknown	NA	NA	NA	Repaired, Replaced, Replacement	<u>No</u> Yes
F	Snubber on S/R 3-01A-0-2441-R9(B)	Lisega	614213-71	NA	NA	NA	Repaired, Replaced, Replacement	<u>No</u> Yes

## Form NIS-2 (Back)

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

*Replaced Grinnell snubbers with Lisege snubbers  
on S/R's 3-01A-a-2441-R9(D), R9(E), and R9(B)*

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

*D. S. Mason*

Date 5-14, 2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

*M.B. Chapman*  
Inspector's Signature

Commissions

NC 914

National Board, State, Province and Endorsements

Date 5-15, 00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-13-00  
 Sheet 3 of 4

3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98229943  
 Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 33054

4. (a) Identification of System: MS 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)
6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>Snubber on SR</u> <u>3-01A-0-2441-R9(A)</u>	<u>Grinnell</u>	<u>9455</u> <u>NA</u> <u>dm</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
B	<u>Snubber on SR</u> <u>3-01A-0-2441-R9(A)</u>	<u>Lisega</u>	<u>614153/28</u> <u>NA</u> <u>dm</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
C	<u>5/R3-01A-0-2441-R2</u> <u>SR</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
D	<u>3-01A-0-2441-H15</u> <u>SR</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
E	<u>3-01A-2441-R7</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
F							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	No Yes

## Form NIS-2 (Back)

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

7. Description of Work Replaced Grinnell snubber with Lisega snubber on S/R 3-01A-0-2441-R  
Modified S/R 3-01A-0-2441-R2 IAW NSM 33054  
Replaced bolting on S/R 3-01A-0-2441-H15  
Modified S/R 3-01A-2441-R7 IAW NSM 33054

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

D. S. Mason

Date

5-14, 2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M. B. Chapman  
 Inspector's Signature

Commissions

NC914  
 National Board, State, Province and Endorsements

Date 5-15, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-13-00  
Sheet 4 of 4

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98229943  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 33054

4. (a) Identification of System: MS 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)
6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	Snubber on S/R 3-01A-2441-R7	Grinnell	30212	NA	NA	NA	Repaired, Replaced, Replacement	(No)
B	Snubber on S/R 3-01A-2441-R7	Lisega	614153/32	NA	NA	NA	Repaired, Replaced, Replacement	(No)
C	S/R 3-01A-0-2441-R8	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	(No)
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes



## Form NIS-2 (Back)

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

Replaced Grinnell Snubber with a Lisega snubber  
on S/R 3-01A-2441-R7  
Modified S/R 3-01A-0-2441-R8 IAW NSM 33054

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed CS Mason  
Owner or Owner's Designee, Title

Date 5-14, 2000

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M B Chapman  
Inspector's Signature

Commissions NC914  
National Board, State, Province and Endorsements

Date 5-15, 00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company526 S. Church Street, Charlotte NC 28201-10061a. Date 5-13-00Sheet 1 of 12. Plant Address: OGONEE NUCLEAR STATION7800 ROCHESTER HWY, SENECA, S.C. 296722a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)3. Work Performed By: Duke Power CompanyAddress: 526 S. Church Street, Charlotte NC 28201-10063a. Work Order #: 98232456

Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A3b. NSM or MM #: 330544. (a) Identification of System: MS4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>SIR</u> <u>3-01A-0-2441B-H21</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
B	<u>SIR</u> <u>3-01A-0-2441-R11</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
C	<u>SIR</u> <u>3-01A-0-2441-R4</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
D							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>Yes</u>
E							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u>
F							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>Yes</u>

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

Modified S/R 3-01A-D-2401B-H21 IAW NSM 33054  
 Modified S/R 3-01A-2441-R11 IAW NSM 33054  
 Modified S/R 3-01A-2441-R4 IAW NSM 33054

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed D. S. Mason  
 Owner or Owner's Designee, Title

Date 5-14, 2000

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MRS Chapman  
 Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 5-15, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-13-00Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98230051

Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A3b. NSM or MM #: 33054

4. (a) Identification of System:
- AS

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>S/R</u>						<u>Repaired, Replaced, or Replacement</u> <u>5-13-00</u>	<u>No</u>
B	<u>3-05A-2401B-H4457</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	Yes
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

*Added new S/R 3-05A-2401B-44457*

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

*D. J. Maizon*

Date 5-14, 2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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*M. B. Chapman*  
 Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 5-15, 00

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

Section E Exhibit A

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

1a. Date 5-13-00Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 ③ Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98230051  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 33054

4. (a) Identification of System: MS

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>SIR</u> <u>3-01A-0-2441-H13</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>No</u>
B							Repaired, Replaced, Replacement	Yes
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

*Welded shim to SR 3-Δ1A-8-2441-H13*

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

*D. S. Merson*

Date 5-14, 2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut, have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

*M. B. Chapman*

Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 5-15, 00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

Section E Exhibit A

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-13-00  
 Sheet 1 of 1

3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98141237  
 Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 33054

4. (a) Identification of System: MS 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

## 6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>S/R</u> <u>3-01A-0-2481B-H2B</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>No</u> Yes
B	<u>Snubber on S/R</u> <u>3-01A-0-2481B-H2B</u>	<u>Grinnell</u>	<u>33075</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>No</u> Yes
C	<u>S/R</u> <u>3-01A-0-2481B-H2A</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>No</u> Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes



## Form NIS-2 (Back)

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

*Modified S/R 3-01A-0-2481B-H2B IAW NSM 33054*  
*Replaced Snubber on S/R 3-01A-0-2481B-H2B*  
*Modified S/R 3-01A-0-2481B-H2A IAW NSM 33054*

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic    Pneumatic    Norm. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed D. J. Mazon  
 Owner or Owner's Designee, Title

Date 5-14, 2000

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M. B. Chapman  
 Inspector's Signature

Commissions NC914  
 National Board, State, Province and Endorsements

Date 5-15, 00

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

Section E Exhibit A

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

1a. Date 5-13-00Sheet 2 of 2  
1 2

2. Plant Address: OGONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

\* 98141237

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 9822996  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 33054

4. (a) Identification of System: MS&AS

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ASME B31.1/1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	S/R 3-05A-2401B-H4299	D.P.Co.	NA	NA		NA	Repaired, Replaced, Replacement	No
B	S/R 3-01A-1-1-0-2401B-RN	D.P.Co.	NA	NA		NA	Repaired, Replaced, Replacement	Yes
C	S/R 3-01A-2401B-RL6	D.P.Co.	NA	NA		NA	Repaired, Replaced, Replacement	Yes
* D	S/R 3-01A-0-2481B-H8B	D.P.Co.	NA	NA		NA	Repaired, Replaced, Replacement	No
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work MODIFIED SUBJECT HANGERS.

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

B. Z. Blumhagen QA SPECIALIST Date 5-14, 00

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions

NC 914

National Board, State, Province and Endorsements

Date 5-15, 00

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

Section E Exhibit A

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

1a. Date 5/13/00  
Sheet 1 of 2

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98229946  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 33054

4. (a) Identification of System: MS, AS 4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.1 / 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>S/R 3-01A-0</u> <u>-2401B-R16</u>	<u>D.P.Co</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
B	<u>S/R 3-05A-2401B</u> <u>H5679</u>	<u>D.P.Co.</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
C	<u>S/R 3-05A-2401-</u> <u>H4303</u>	<u>D.P.Co.</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
D	<u>S/R 3-01A-0-</u> <u>2401B-H20</u>	<u>D.P.Co.</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
E	<u>S/R 3-01A-0</u> <u>-2401B-R12</u>	<u>D.P.Co.</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
F							<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	No Yes

## Form NIS-2 (Back)

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

7. Description of Work MODIFIED SUBJECT HANGERS. INSTALLED NEW HANGER HS679.

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

P. L. Blumhagen QA SPECIALIST Date 5/14, 00

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-21-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions

N.C. 914  
National Board, State, Province and Endorsements

Date 5-15, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-3-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98177254  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 13692

4. (a) Identification of System: LP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

## 6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>S/R</u> <u>3-53B-2439B-H5685</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B	<u>S/R</u> <u>3-53B-5-0-2439B-H54</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
C	<u>S/R</u> <u>3-53B-5-0-2439B-R14</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>No</u>

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

*Installed new S/R 3-53B-2439B-H5685*  
*Modified S/R 3-53B-5-0-2439B-H54 IAW OE-13692*  
*Modified S/R 3-53B-5-0-2439B-RL4 IAW OE-13692*

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

*[Signature]*

Date 5-3, 2000

Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-15-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

*[Signature]*  
 Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 5-16, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

1a. Date 5-9-08  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98263091  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: N/A

4. (a) Identification of System: LP

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>SIR</u> <u>3-538-50-2436D-R3</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>No</u> Yes
B							Repaired, Replaced, Replacement	No Yes
C							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes



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

7. Description of Work Welded shims to S/R 3-53B-50-2436DR3

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

J. S. Mason

Date 5-9, 2000

Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-29-00 to 5-9-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M. B. Chapman  
 Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 5-9, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-11-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98200088  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: OE-13719

4. (a) Identification of System: HP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

## 6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>3/R</u> <u>351A-1-0-2439A-H242</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>NO</u> Yes
B							Repaired, Replaced, Replacement	No
C							Repaired, Replaced, Replacement	Yes
D							Repaired, Replaced, Replacement	No
E							Repaired, Replaced, Replacement	Yes
F							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

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

7. Description of Work Welded shim to S/R 3-51A-1-0-2439A-H242

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed D. J. Mason  
 Owner or Owner's Designee, Title

Date 5-11, 2000

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-20-00 to 5-31-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M. B. Chapman  
 Inspector's Signature

Commissions NC914  
 National Board, State, Province and Endorsements

Date 5/31, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-11-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98137867  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: OE-8560

4. (a) Identification of System: HP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)
6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>SIR</u> <u>3-51A-2439A-H5043</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>(NO)</u>
B	<u>SIR</u> <u>3-51A-2439A-H5044</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>(NO)</u>
C	<u>SIR</u> <u>3-51A-2439C-H5589</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>(NO)</u>
D	<u>SIR</u> <u>3-51A-2439C-H5588</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> Replaced, Replacement	<u>(NO)</u>
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	No

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

*Modified SR's 3-51A-2439A-H5043, 3-51A-2439A-H5044,  
3-51A-2439C-H5589 and 3-51A-2439C-H5588 IAW DE-8560*

7. Description of Work \_\_\_\_\_

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

*D. S. Mason*

Date 5-11, 2000

Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-4-00 to 5-11-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

*M.B. Chapman*  
Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 5-11, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 ☒ Shared (specify Units \_\_\_\_\_)

1a. Date 5-10-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98196347  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. ~~NOM~~ or MM #: OE-12834

4. (a) Identification of System: HP 4. (b) Class of System: 1
5. (a) Applicable Construction Code: \_\_\_\_\_ Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)
6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>VLV.</u> <u>3HP-428</u>	<u>ANCHOR</u> <u>DARLING</u>	<u>E9127-93-4</u>	<u>Z18</u>		<u>1982</u>	Repaired, Replaced, Replacement	No <u>Yes</u>
B	<u>VLV.</u> <u>3HP-428</u>	<u>Crane</u>	<u>C8327</u>	<u>2N</u>		<u>1999</u>	Repaired, Replaced, Replacement	No <u>Yes</u>
C							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

## Form NIS-2 (Back)

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

7. Description of Work Replaced Valve 3HP-428 with DMV-1219

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]  
 Owner or Owner's Designee, Title

Date 5-16-2000

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-16-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
 Inspector's Signature

Commissions NC914  
 National Board, State, Province and Endorsements

Date 5-16-00

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

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

1a. Date 1-21-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98086340  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # NA

4. Identification of System MS Class 2

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, July Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>S/R</u> <u>3-01A-2403D-009</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes



**Form NIS-2 (Back)**

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

7. Description of Work Remove and reweld item # 13

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed *J. S. Mason*

Date 1-21, 1999

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-15-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*J. M. B. Chapman*  
 Inspector's Signature

Commissions

NC 914

National Board, State, Providence and Endorsements

Date 1-21, 1999

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-1-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98212527  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: NA

4. (a) Identification of System: LP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>Bolting</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
C							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>

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

7. Description of Work Replaced 34P-19 blank Flange bolting

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature] Date 5-1, 2000  
Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-21-00 to 5-1-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NC914  
National Board, State, Province and Endorsements

Date 5-1, 00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-2-00  
 Sheet 1 of 1

3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98177255  
 Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. ~~NCM~~ or MM #: OE-13694

4. (a) Identification of System: LP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement (yes or no)	Column 8 ASME Code Stamped (yes or no)
A	<u>SIR</u> <u>3-53B-2439C-H5683</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
B	<u>SIR</u> <u>3-53B-2439C-H5686</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
C	<u>SIR</u> <u>3-53B-2439C-H5687</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
D	<u>SIR</u> <u>3-GH-5T-9091-01</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
E	<u>SIR</u> <u>3-53B-2438B-H5645</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes
F	<u>SIR</u> <u>3-53B-6-0-2439C-H108</u>	<u>DPC</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired,</u> <u>Replaced,</u> <u>Replacement</u>	<u>No</u> Yes

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

- Added new S/R 3-53B-2439C-H5688, 3-53B-2439C-H5686  
and 3-53B-2439C-H5687  
Modified S/R 3-GH-ST-9091-01 IAW DE-13694  
Modified S/R 3-53B-2438B-H5645 IAW DE-13694  
Modified S/R 3-53B-2439C-H108 IAW DE-13694*
7. Description of Work

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other      Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

*Joe Mason*

Date 5-2, 2000

Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-15-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

*MB Chapman*  
Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 5-16, 00

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

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

1a. Date 2-25-99

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

Sheet 1 of 1

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

3a. Work Order # 98073114  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # N/A

4. Identification of System LP Class 2

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, August Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

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

## Form NIS-2 (Back)

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

7. Description of Work Replaced 2 Casing studs in 3A LPI Pump

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed D. J. Mason

Date 2-25, 1999

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-26-98 to 5-1-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M. B. Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 3-1, 1999

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

Section E Exhibit A

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

1a. Date 6-6-00  
Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98267536  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: NA

4. (a) Identification of System: RC

4. (b) Class of System: 1

5. (a) Applicable Construction Code: ASME III Edition, SUMMER 1992 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>BOLTING &amp; SPLIT RING</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>No</u>
B							Repaired, Replaced, Replacement	Yes
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes



## Form NIS-2 (Back)

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

7. Description of Work REPLACED MAIN FLANGE BOLTING & SPLIT RING ON CRDM #21 @ LOCATION G5.
8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

## 9. Remarks

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(Applicable Manufacturer's Data Records to be attached)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature]

Date

6-6-00

Owner or Owner's Designee, Title

SPECIALIST

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-21-00 to 6-6-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions

NC 914

National Board, State, Province and Endorsements

Date

6-6-00

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

Section E Exhibit A

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

1a. Date 6-6-00  
Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98267363-01  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: NA

4. (a) Identification of System: RC

4. (b) Class of System: 1

5. (a) Applicable Construction Code: ASME III Edition, SUMMER 1972 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>BOLTING &amp; SPLIT RING</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
C							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>

## Form NIS-2 (Back)

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

7. Description of Work REPLACED MAIN FLANGE BOLTING & SPLIT RING ON CRDM # 2 @ LOCATION G7.

8. Test Conducted: Hydrostatic      Pneumatic      Nom. Operating Press.      Other Exempt

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig      Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Arthur A. Buttrick QA Date 6-6-00

Owner or Owner's Designee, Title

SPECIALIST

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-21-00 to 6-6-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 6-6-00

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

Section E Exhibit A

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

1a. Date 6-7-00  
Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98182964  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: NA

4. (a) Identification of System: RC

4. (b) Class of System: 1

5. (a) Applicable Construction Code: ASME III Edition, SUMMER 1973 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	QUICK VENT CLOSURE INSERTS BTW		NA	NA	NA	NA	Repaired, Replaced, Replacement	No
B	ON CRDM'S.						Repaired, Replaced, Replacement	Yes
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED QUICK VENT CLOSURE INSERTS  
ON CRDM'S #S 4, 61 & 5.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

John A. Blumhagen PA  
Owner or Owner's Designee, Title SPECIALIST

Date

6-7, 00

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-5-00 to 6-20-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M.B. Chapman  
Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date \_\_\_\_\_

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

Section E Exhibit A

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

1a. Date 6-7-06  
Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672

2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98267361  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: NA

4. (a) Identification of System: RC 4. (b) Class of System: 1

5. (a) Applicable Construction Code: ASME III Edition, 1993 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>BOLTING + SPLIT RING</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
C							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>

## Form NIS-2 (Back)

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

7. Description of Work REPLACED MAIN FLANGE BOLTING & SPLIT RING ON CRDM #59 @ LOCATION H-14.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other ~~Exempt~~

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature]  
Owner or Owner's Designee, Title

Date

6-7, 00

SPECIALIST

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N. C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-21-00 to 6-7-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 6-7, 00

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

Section E Exhibit A

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

1a. Date 6-19-00  
Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98117422  
Repair Organization Job # \_\_\_\_\_

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: \_\_\_\_\_

4. (a) Identification of System: LPI

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>BOLTING</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>No</u> Yes
B							Repaired, Replaced, Replacement	No Yes
C							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes



## Form NIS-2 (Back)

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

7. Description of Work REPLACED BOLTING ON SUCTION FLANGE ON 3C-LPI PUMP.

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Robert L. Blumhugh

Date

6/19/00

Owner or Owner's Designee, Title

SPECIALIST

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-21-00 to 6-20-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MBC Chapman  
Inspector's Signature

Commissions

NC914  
National Board, State, Province and Endorsements

Date 6-20-00

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

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

1a. Date 8-17-99  
Sheet 1 of 1

2. Plant Address: OCONEE NUC. STA.  
P.O. BOX 1439 SENECA, S.C. 29679

2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98040975  
Repair Organization Job # \_\_\_\_\_

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: NA

4. (a) Identification of System: RC

4. (b) Class of System: 1

5. (a) Applicable Construction Code: ASME III Edition, 1967 SUMMER Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>BOLTING FOR RCP 3B1</u>	<u>NA</u>	<u>PUMP S/N 2P2781</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u> Yes
B	<u>MAIN FLANGE</u>						<u>Repaired, Replaced, Replacement</u>	<u>No</u> Yes
C							<u>Repaired, Replaced, Replacement</u>	<u>No</u> Yes
D							<u>Repaired, Replaced, Replacement</u>	<u>No</u> Yes
E							<u>Repaired, Replaced, Replacement</u>	<u>No</u> Yes
F							<u>Repaired, Replaced, Replacement</u>	<u>No</u> Yes

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

7. Description of Work REPLACED BOLTING ON RCP 3B1 MAIN FLANGE, 7 NEW STUDS & 9 NEW NUTS.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Arthur L. Blahnik  
 Owner or Owner's Designee, Title

Date 8-17-99

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 10-28-98 to 8-18-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M.B. Chapman  
 Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 8-18-99

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

1a. Date 5-2-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98177255  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 13694

4. (a) Identification of System: LP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	VLV. 3LP-18	ANCHOR DARLING	ET-695-1-1	1757		1993	Repaired, Replaced, Replacement	No
B	VLV. 3LP-18	FLOW SERVE	D426A-1-5	2123		1999	Repaired, Replaced, Replacement	No
C	PIPING	D.P. Co.	NA			12/74	Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED VLV. 3LP-18 W/A DMV1263.

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed J.B. Mason  
Owner or Owner's Designee, Title

Date 5-15, 2000

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-15-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 5-16-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company526 S. Church Street, Charlotte NC 28201-10061a. Date 4-25-00Sheet L of L2. Plant Address: OCONEE NUCLEAR STATION7800 ROCHESTER HWY, SENECA, S.C. 296722a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)3. Work Performed By: Duke Power CompanyAddress: 526 S. Church Street, Charlotte NC 28201-10063a. Work Order #: 98177254

Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A3b. NSM or MMA #: 136924. (a) Identification of System: LP4. (b) Class of System: B

5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	VLV. 3LP-17	FLOW SERVE CORP.	D426A-1-4	2117		1999	Repaired, Replaced, Replacement	No
B	VLV. 3LP-17	ANCHOR DARLING	ET695-1-2	1768		1994	Repaired, Replaced, Replacement	Yes
C	PIPING	D.P.CO	NA	NA		12/74	Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

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

7. Description of Work REPLACED VLV. 3LP-17 W/A DMV1263.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

Tested IAW ASME Code Case N446-1

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature] TECH. SPEC. II Date 5-15-00  
 Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3-15-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
 Inspector's Signature

Commissions N2914  
 National Board, State, Province and Endorsements

Date 5-16-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)
3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

1a. Date: 5/20/00  
 Sheet 1 of 1

3a. Work Order #: 98192311  
 Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 13720

4. (a) Identification of System: HP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

## 6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>PIPING</u>	<u>D.P.Co.</u>	<u>N/A</u>	<u>N/A</u>		<u>12/74</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
C							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>



## Form NIS-2 (Back)

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

7. Description of Work REPLACED REDUCING INSERT DURING REPLACEMENT OF VLV. 3HP-216.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]  
Owner or Owner's Designee, Title

Date 5-31, 2000

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-27-00 to 5-31-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NC914  
National Board, State, Province and Endorsements

Date 6-5-00  
5-31-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company526 S. Church Street, Charlotte NC 28201-10061a. Date 5-4-00Sheet 1 of 12. Plant Address: OCONEE NUCLEAR STATION7800 ROCHESTER HWY, SENECA, S.C. 296722a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)3. Work Performed By: Duke Power CompanyAddress: 526 S. Church Street, Charlotte NC 28201-10063a. Work Order #: 98238122

Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A3b. NSM or MM #: 136964. (a) Identification of System: LP4. (b) Class of System: 15. (a) Applicable Construction Code: ANSI B31.7 Edition, 869 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	VLV 3LP-46	ANCHOR DARLING	ET153-3-1	1480		1992	Repaired, Replaced, Replacement	No
B	VLV 3LP-46	FLOWSERVE	E835A-1-1	2269		2000	Repaired, Replaced, Replacement	No
C	PIPING	D.P.CO.	N/A	N/A		12/74	Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	No
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

\* NOTE VLV. REMOVED WAS 1".

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

7. Description of Work REPLACED VLV. 3LP-46 W/ITEM 09J-2040.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

J. S. Mason

Date 5-31-2000

Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-26-00 to 5-31-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
 Inspector's Signature

Commissions

NC914  
 National Board, State, Province and Endorsements

Date 5-31-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 4-21-00  
 Sheet 1 of 1

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

3a. Work Order #: 98200088  
 Repair Organization Job # \_\_\_\_\_

3b. NSM or MM #: 13719

4. (a) Identification of System: HP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

## 6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	3 HP-120	CCI DRAG	906573-1-1	NA		NA	Repaired, Replaced, Replacement	No
B	3 HP-120	LESLIE	NA	NA		NA	Repaired, Replaced, Replacement	Yes
C	PIPING	D.P. Co.	NA	NA		12/74	Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED VLV. 3HP-120 W/DMV-1180.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks

Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Ed Morrison

Date 5-31-2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-20-00 to 5-31-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions

NC914

National Board, State, Province and Endorsements

Date 5-31-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672
- 2a. Unit: 1 2 6 Shared (specify Units \_\_\_\_\_)

1a. Date 5-2-00  
 Sheet 1 of 1

3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98176331  
 Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 13724

4. (a) Identification of System: SR 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ASME III Edition, 1994 W/75 Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

## 6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>VLV. 3 SF-82</u>	<u>BORG WARNER</u>	<u>58982</u>	<u>2206</u>		<u>1980</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B	<u>VLV. 3 SF-82</u>	<u>VECAN</u>	<u>992112-2</u>	<u>NA</u>		<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
C	<u>PIPING</u>	<u>D.P.Co.</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>

## Form NIS-2 (Back)

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

7. Description of Work REPLACED VLV. 3SP-82 W/DMV-1222.

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case W416-1

(Applicable Manufacturer's Data Records to be attached)

#### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed J. J. Mason

Date 5-16-2000

Owner or Owner's Designee, Title

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-20-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M. B. Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 5-16-00

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-2-00  
 Sheet 1 of 1

3. Work Performed By: Duke Power Company  
 Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98213270  
 Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: 14090

4. (a) Identification of System: BS 4. (b) Class of System: Z
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>VLV.</u> <u>3BS-10</u>	<u>VELAN</u>	<u>1932</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>No</u> Yes
B	<u>3BS-9</u>	<u>"</u>	<u>19134/c</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>No</u> Yes
C	<u>3BS-7</u>	<u>"</u>	<u>1912</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>No</u> Yes
D	<u>3BS-8</u>	<u>"</u>	<u>0267</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>No</u> Yes
E	<u>PPING</u>	<u>D.P. Co.</u>	<u>NA</u>	<u>NA</u>		<u>12/74</u>	Repaired, Replaced, Replacement	<u>No</u> Yes
F							Repaired, Replaced, Replacement	No Yes



## Form NIS-2 (Back)

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

7. Description of Work REMOVED VLV'S. 3BS-7, 8, 9, & 10.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed OB Mason

Date 5-16, 2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-30-00 to 5-15-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M B Chapman  
 Inspector's Signature

Commissions NC914

National Board, State, Province and Endorsements

Date 5-16 00

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

Section E Exhibit A

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

1a. Date 5-31-00  
Sheet 1 of 1

2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672

2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98250450  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: \_\_\_\_\_

4. (a) Identification of System: RC

4. (b) Class of System: 1

5. (a) Applicable Construction Code: ASME B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>PIPING</u>	<u>D.P.Co.</u>	<u>NA</u>	<u>NA</u>		<u>12/74</u>	Repaired, Replaced, Replacement	No
B							Repaired, Replaced, Replacement	Yes
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes
							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work CUTOUT & REPLACED WELD 3-51A-69-73 & PIPING  
PER PIP 00-00666.

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

D. S. Mason

Date 6-1, 2002

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-10-00 to 6-5-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

IMB Chapman  
Inspector's Signature

Commissions

NC 914

National Board, State, Province and Endorsements

Date 6-5-00

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

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

1a. Date 1-14-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98107506

Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # NA

4. Identification of System RC Class A (2)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	QUICK VENT CLOSURE INSERT BTW CONTROL & DRIVE		NA	NA	NA	NA	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	ASSY. FOR CRDM # 9 CLOSURE INSERT H-6						<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

## Form NIS-2 (Back)

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

7. Description of Work

REPLACED QUICK VENT CLOSURE INSERT CONTROL  
+ DRIVE ASSY. ON CRDM #9 AT LOCATION H-6.

8. Test Conducted:

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

A. Z. Blumhagen QA TECH. SPEC.  
 Owner or Owner's Designee, Title

Date 1-14, 19 99

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 11-26-98 to 1-14-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

MB Chapman  
 Inspector's Signature

Commissions

NC914

National Board, State, Providence and Endorsements

Date 1-14, 19 99

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

## As Required By The Provisions Of The ASME Code Section XI

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

1a. Date 1-20-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 9809489Z-01  
Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System Re Class 1(A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, N/A Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989/No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	BOLTING ON CRDM FLANGE NO. 52 AT LOCATION E-13	NA	NA	NA		NA	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

**Form NIS-2 (Back)**

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

7. Description of Work REPLACED BOLTING ON FLANGE ON CRDM # 52 AT LOCATION E-13.

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed \_\_\_\_\_

Owner or Owner's Designee, Title

Date 1-20, 19 99

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-21-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M.B. Chapman  
Inspector's Signature

Commissions

NC914

National Board, State, Providence and Endorsements

Date 1-21, 19 99

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

## As Required By The Provisions Of The ASME Code Section XI

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

1a. Date 1-20-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98094894-01  
Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System Re Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, N/A Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

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



## Form NIS-2 (Back)

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7. Description of Work REPLAZED BOLTING ON CRDM FLANGE No. 6 AT  
LOCATION F-8.

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed A. Z. Blubaugh

QA SPECIALIST

Date 1-20, 19 99

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-21-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions NC 914

National Board, State, Providence and Endorsements

Date 1-21, 19 99

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

## As Required By The Provisions Of The ASME Code Section XI

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

1a. Date 1-20-99

2. Plant **Oconee Nuclear Station**  
Address **P.O. Box 1439, Seneca, S.C. 29679**

Sheet 1 of 1

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

3a. Work Order # 98094893-01  
Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System RC Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, N/A Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	BOLTING ON CRDM FLANGE No. 53 AT LOCATION M-13.	N/A	N/A	N/A		N/A	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED BOLTING ON FLANGE ON CRDM # 53 AT LOCATION M-13.

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed A. Z. Bluthaupt

Owner or Owner's Designee, Title

Date 1-20, 1999

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N. C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-21-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M. B. Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 1-21, 1999

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

## As Required By The Provisions Of The ASME Code Section XI

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

1a. Date 1-20-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98094891  
Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System RC Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>BOLTING ON CRDM FLANGE No. 54 AT LOCATION 0-11</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

**Form NIS-2 (Back)**

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

7. Description of Work REPLACED BOLTING ON CRDM FLANGE No. 54 AT LOCATION 0-11

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed

A. Z. Blubaugh QA SPECIALIST Date 1-20, 19 99

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-21-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M.B. Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 1-21, 19 99

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

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

1a. Date 1-20-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98095106  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System Re Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>BOLTING ON CRDM FLANGE No. 18 AT LOCATION M-9</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>		<u>N/A</u>	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED BOLTING ON CRDM No. 18 FLANGE AT LOCATION M-1

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed A. J. Blum

QA SPECIALIST

Date 1-20, 1999

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-21-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M.B. Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 1-21, 1999

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

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

1a. Date 1-20-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98090084-01  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System Re Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, NX Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>BOLTING ON CRDM FLANGE NO. 24</u>	<u>NX</u>	<u>NX</u>	<u>NX</u>		<u>NX</u>	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	<u>AT LOCATION N-8.</u>						<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes



**Form NIS-2 (Back)**

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

7. Description of Work REPLACED BOLTING ON CRDM FLANGE NO. 24 AT LOCATION N-8

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed A. J. Blubaugh

QA SPECIALIST

Date 1-20, 19 99

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-21-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M.B. Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 1-21, 19 99

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

## As Required By The Provisions Of The ASME Code Section XI

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

1a. Date 1-20-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98098604  
Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System Re Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, N/A. Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	BOILING ON CRDM FLANGE # 57 AT LOCATION E-3.	N/A	N/A	N/A		N/A	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED BOLTING ON CRDM FLANGE No. 57 AT LOCATION E:

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed

A. Z. Bluthaupt **QA SPECIALIST**  
Owner or Owner's Designee, Title

Date 1-20, 19 99

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-29-98 to 1-21-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M. B. Chapman  
Inspector's Signature

Commissions

NC914

National Board, State, Providence and Endorsements

Date 1-21, 1999

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

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

1a. Date 2-10-99

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

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

3a. Work Order # 98015028  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System Re Class 1

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	QUICK VENT CLOSURE INSERT CONTROL & DRIVE ASSY. FOR INSERT # 55	B+W	NA	NA	NA	NA	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

## Form NIS-2 (Back)

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

7. Description of Work REPLACED QUICK VENT CLOSURE INSERT CONTROL + DRIVE ASSY. ON CRDM #55 AT LOCATION O-5.

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed A. Z. Budwig

QA SPECIALIST

Date 2-10, 1999

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 11-4-98 to 2-10-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

MB Chapman  
Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 2-10, 1999

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

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

1a. Date 3-24-99

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

Sheet 1 of 1

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

3a. Work Order # 98011348-01  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System HP Class 2

5. (a) Applicable Construction Code B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

## 6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve 3HP-31	Fisher	Unavailable	N/A	N/A	N/A	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

**Form NIS-2 (Back)**

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

7. Description of Work Replaced Disc/plug

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed A. Toohr OC Specialist  
 Owner or Owner's Designee, Title

Date 3-24, 1999

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 10-16-98 to 3-24-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M.B. Chapman  
 Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 3-24, 1999

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

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

1a. Date 5/19/99

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

Sheet 1 of 1

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

3a. Work Order # 98011295-01  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # \_\_\_\_\_

4. Identification of System RC Class 1

5. (a) Applicable Construction Code B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

## 6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
<b>A</b>	Valve 3RC-68	Dresser	BL-8896	N/A	N/A	96	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
<b>B</b>	Valve 3RC-68	Dresser	BL08895	N/A	N/A	N/A	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
<b>C</b>							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
<b>D</b>							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
<b>E</b>							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
<b>F</b>							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes



## Form NIS-2 (Back)

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

7. Description of Work Replaced Valve 3RC-68

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed *J. Mason*

Date 5-19, 1999

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 11-23-98 to 5-19-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*M.B. Chapman*  
Inspector's Signature

Commissions

NC 914

National Board, State, Providence and Endorsements

Date 5-19, 1999

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

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

1a. Date 5-19-99

2. Plant **Oconee Nuclear Station**  
 Address **P.O. Box 1439, Seneca, S.C. 29679**

Sheet 1 of 1

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

3a. Work Order # 98011294-01  
 Repair Organization Job # \_\_\_\_\_

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

3b. NSM or MM # —

4. Identification of System RC Class 1

5. (a) Applicable Construction Code B31.7 1969 Edition, — Addenda, — Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda

## 6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve 3RC-67	Dresser	BL-8890	N/A	N/A	70	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
B	Valve 3RC-67	Dresser	BL08891	N/A	N/A	N/A	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

**Form NIS-2 (Back)**

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

7. Description of Work Replaced 3RC-67 valve + Bolting

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

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

Pressure \_\_\_\_\_ psig

Test Temp. \_\_\_\_\_ °F

9. Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(Applicable Manufacturer's Data Records to be Attached)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this **repair or replacement** conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp **N/A**

Certificate of Authorization No. **N/A**

Expiration Date **N/A**

Signed *C. S. Mason*  
 Owner or Owner's Designee, Title

Date 5-19, 1999

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of N.C. and employed by **HSBI and I Company of Hartford Connecticut** have inspected the components described in this Owner's Report during the period 11-11-98 to 5-19-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*M.B. Chapman*  
 Inspector's Signature

Commissions NC914

National Board, State, Providence and Endorsements

Date 5-19, 1999

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-17-20  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98078741-01  
Repair Organization Job # \_\_\_\_\_

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: —

4. (a) Identification of System: LPSW 4. (b) Class of System: 2
5. (a) Applicable Construction Code: B31.1 1967 Edition, — Addenda, — Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	Valve 3LPSW-8	Crane	3021770-02	N/A	N/A	N/A	Repaired, Replaced, Replacement	<u>No</u> Yes
B							Repaired, Replaced, Replacement	No Yes
C							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

## Form NIS-2 (Back)

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

7. Description of Work Replaced body / bonnet bolting 3LPSW-8

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Altohn QC Specialist    Date 5-17, 2000  
 Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-19-00 to 5-17-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
 Inspector's Signature

Commissions NC914  
 National Board, State, Province and Endorsements

Date 5-17, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-17-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98078742-01  
Repair Organization Job # \_\_\_\_\_

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MM #: \_\_\_\_\_

4. (a) Identification of System: LPSW 4. (b) Class of System: 2
5. (a) Applicable Construction Code: B31.1 1967 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	Valve 3LPSW-10	Crane	Unavailable	N/A	N/A	N/A	Repaired, Replaced, Replacement	No
B							Repaired, Replaced, Replacement	Yes
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work Replaced Body/Bonnet bolting 3LPSW-10

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed A. Toombs QC Specialist Date 5-17, 2000  
 Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of \_\_\_\_\_ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-19-00 to 5-17-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman Commissions NC 914  
 Inspector's Signature    National Board, State, Province and Endorsements

Date 5-17, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 (3) Shared (specify Units \_\_\_\_\_)

1a. Date 5-5-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98206448  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. NSM or MIM #: 13717

4. (a) Identification of System: HP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: \_\_\_\_\_ Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)
6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>VLV.</u> <u>3 HP-66</u>	<u>DRAG</u>	<u>708831-1-8</u>	<u>48</u>		<u>2000</u>	Repaired, Replaced, Replacement	No
B	<u>VLV.</u> <u>3 HP-66</u>	<u>ANDERSON</u> <u>GREENWOOD</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>	Repaired, Replaced, Replacement	<u>Yes</u>
C							Repaired, Replaced, Replacement	No
D							Repaired, Replaced, Replacement	Yes
E							Repaired, Replaced, Replacement	No
F							Repaired, Replaced, Replacement	Yes



## Form NIS-2 (Back)

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

7. Description of Work Replaced Valve 3HP-66 with a DMX-1228

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]  
 Owner or Owner's Designee, Title

Date 6-1, 2000

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2-21-00 to 6-5-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

[Signature]  
 Inspector's Signature

Commissions N.C.  
 National Board, State, Province and Endorsements

Date 6-5, 00

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

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY, SENECA, S.C. 29672
- 2a. Unit: 1 2 ⑥ Shared (specify Units \_\_\_\_\_)

1a. Date 5-2-00  
Sheet 1 of 1

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98204056-01  
Repair Organization Job #

Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A

3b. ~~NSM~~ or MM #: OE-13702

4. (a) Identification of System: Re 4. (b) Class of System: L
5. (a) Applicable Construction Code: ANSI B31.7 1969 Edition, \_\_\_\_\_ Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)

6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	<u>VLV. 3RC-1</u>	<u>TARGET ROCK</u>	<u>1</u>	<u>780</u>	<u>1999</u>	<u>NA</u>	<u>Repaired, Replaced, Replacement</u>	<u>No</u>
B	<u>VLV. 3RC-1</u>	<u>TARGET ROCK</u>	<u>1</u>	<u>NA</u>		<u>1976</u>	<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
C							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
D							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>
E							<u>Repaired, Replaced, Replacement</u>	<u>No</u>
F							<u>Repaired, Replaced, Replacement</u>	<u>Yes</u>

## Form NIS-2 (Back)

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

7. Description of Work REPLACED VALVE 3RC-001 WITH A DMV-1218

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt

Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

9. Remarks Tested IAW ASME Code Case N416-1

(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed D. B. Mason  
 Owner or Owner's Designee, Title

Date 5-31-2000

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-30-00 to 5-31-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

MB Chapman  
 Inspector's Signature

Commissions NC914  
 National Board, State, Province and Endorsements

Date 5-31-00

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

Section E Exhibit A

1. Owner Address: Duke Power Company  
526 S. Church Street, Charlotte NC 28201-1006
2. Plant Address: OCONEE NUCLEAR STATION  
7800 ROCHESTER HWY., SENECA, S.C. 29672
- 2a. Unit: 1 2 3 Shared (specify Units \_\_\_\_\_)

1a. Date 5-16-00

Sheet \_\_\_\_ of \_\_\_\_

3. Work Performed By: Duke Power Company  
Address: 526 S. Church Street, Charlotte NC 28201-1006

3a. Work Order #: 98213270  
Repair Organization Job #Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A3b. NSM or MM #: 14090

4. (a) Identification of System: LP 4. (b) Class of System: 2
5. (a) Applicable Construction Code: ANSI B31.7 Edition, 8/69 Addenda, \_\_\_\_\_ Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports)
6. Identification of Components Repaired or Replaced and Replacement Components:

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3 Mfg. Serial No.	Column 4 National Board No.	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	3-53B-50- 2435D-SR42	DPC	N/A	N/A	N/A		Repaired, Replaced, Replacement	No
B	3-53B-5-0 2435D-SR41	DPC	N/A	N/A	N/A		Repaired, Replaced, Replacement	Yes
C	3-53B-5-0 2435D-H74	DPC	N/A	N/A	N/A		Repaired, Replaced, Replacement	Yes
D							Repaired, Replaced, Replacement	No
E							Repaired, Replaced, Replacement	Yes
F							Repaired, Replaced, Replacement	No
							Repaired, Replaced, Replacement	Yes

## Form NIS-2 (Back)

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

7. Description of Work REMOVE SNUBBER, AND REPLACE WITH STRUTS

8. Test Conducted: Hydrostatic    Pneumatic    Nom. Operating Press.    Other    Exempt

Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F  
 Pressure \_\_\_\_\_ psig    Test Temp. \_\_\_\_\_ °F

9. Remarks

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(Applicable Manufacturer's Data Records to be attached)

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

W. Mason

Date 5-16-2000

Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of N.C. and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-30-00 to 5-16-00; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.

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

M.B. Chapman  
 Inspector's Signature

Commissions

NC 914

National Board, State, Province and Endorsements

Date 5-16-00

## 11.0 Pressure Testing

There are three refueling outages scheduled for the second period of the third inspection interval for Duke Power Company's Oconee Nuclear Station Unit 3. This section describes Pressure Tests performed during the 2000 refueling outage (also referred to as EOC-18).

<i><b>Examination Category</b></i>	<i><b>Test Requirement</b></i>	<i><b>Total Examinations Required For This Period</b></i>	<i><b>Total Examinations Credited For This Period</b></i>	<i><b>(%) Examinations Complete For This Period</b></i>
B-E	System Hydrostatic Test (IWB-5222)	0	0	0%
B-P	System Leakage Test (IWB-5221)	3	2	66.67%
B-P	System Hydrostatic Test (IWB-5222)	0	0	0%
C-H	System Inservice/Functional Test (IWC-5221)	40	9	22.50%
C-H	System Hydrostatic Test (IWC-5222)	11	1	9.09%

A detailed description of each Examination Category listed above is located in subsection 11.1 of this report. Results of each examination category are located in subsection 11.2 of this report.

### 11.1 Required Examinations This Outage:

A listing of each pressure test and associated VT-2 Visual Examination required for EOC-18 is included in this section.

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

Zone No.	=	The unique number assigned to track certain parameters that make up a pressure test.
Flow Drawing	=	Detail drawing of pressure test boundary.
Required Test L/I/F/H	=	A column of information that shows an "X" indicating the required tests for the examination zone. L = "Leakage Test", I = "Inservice Test", F = "Functional Test", and H = "Hydrostatic Test".
System Name	=	Name of pressure retaining component system.
Required Inspection	=	Type of visual examination required.
Required Procedure	=	Required inspection procedure.
ASME Item Number(s)	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), and IWD-2500-1 (Class 3).
Comments	=	General and/or Detail Description

**Duke Power Company - Oconee Unit 3  
Pressure Testing Zone Number Listing**

**Outage 18**

**Int = 3  
Period = 2**

Zone Number	Boundary Drawing	Required Test L / I / F / H				System Name	Required Inspection	Required Procedure	ASME Item Number(s)	Comments
OZ3L-1	O-ISIL-100A-3.1	X				Reactor Coolant	VT-2	QAL-15	B15.10 B15.30 B15.50 B15.60 B15.70	N/A
	O-ISIL-100A-3.2	X				Reactor Coolant	VT-2	QAL-15	B15.20 B15.50 B15.70	N/A
	O-ISIL-100A-3.3	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.60 B15.70	N/A
	O-ISIL-101A-3.1	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70 C7.30 C7.70	N/A
	O-ISIL-101A-3.4	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-102A-3.1	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-102A-3.2	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-102A-3.3	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-110A-3.1	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-110A-3.4	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70	N/A



# Duke Power Company - Oconee Unit 3 Pressure Testing Zone Number Listing

Outage 18

Int = 3  
Period = 2

Zone Number	Boundary Drawing	Required Test L / I / F / H				System Name	Required Inspection	Required Procedure	ASME Item Number(s)	Comments
IZ3L-27	O-ISIL-102A-3.2		X			Low Pressure Injection	VT-2	QAL-15	C7.30 C7.50 C7.70	N/A
IZ3L-4	O-ISIL-101A-3.1		X	X		High Pressure Injection	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3H-28	O-ISIH-102A-3.2				X	Low Pressure Injection	VT-2	QAL-15	C7.40 C7.60 C7.80	N/A
OZ3L-1	O-ISIL-100A-3.1	X				Reactor Coolant	VT-2	QAL-15	B15.10 B15.30 B15.50 B15.60 B15.70	N/A
	O-ISIL-100A-3.2	X				Reactor Coolant	VT-2	QAL-15	B15.20 B15.50 B15.70	N/A
	O-ISIL-101A-3.1	X				Reactor Coolant	VT-2	QAL-15	B15.50 B15.70 C7.30 C7.70	N/A
	O-ISIL-101A-3.5	X				Reactor Coolant	VT-2	QAL-15	C7.30 C7.70	N/A
	O-ISIL-127B-3.2	X				Nitrogen Purge and Blanket	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3L-18	O-ISIL-101A-3.2		X			High Pressure Injection	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3L-32	O-ISIL-102A-3.3		X			Low Pressure Injection	VT-2	QAL-15	C7.30 C7.70	N/A

[illegible]

**Duke Power Company - Oconee Unit 3**  
**Pressure Testing Zone Number Listing**

**Outage 18**

**Int = 3**  
**Period = 2**

<b>Zone Number</b>	<b>Boundary Drawing</b>	<b>Required Test L / I / F / H</b>				<b>System Name</b>	<b>Required Inspection</b>	<b>Required Procedure</b>	<b>ASME Item Number(s)</b>	<b>Comments</b>
	O-ISIL-101A-3.2		X			High Pressure Injection	VT-2	QAL-15	C7.30 C7.70 D1.11	N/A
	O-ISIL-109A-3.1		X			Purification Demineralizers	VT-2	QAL-15	C7.30 C7.70	N/A

## 11.2 Examination Results For This Outage:

The results of each pressure test and associated VT-2 Visual Examination required for EOC-18 are included in this section.

The information shown below is a field description for the Class 1 & Class 2 listing format included in this section of the report:

Zone Number	=	The unique number assigned to track certain parameters that make up a pressure test.
Flow Drawing	=	Detail drawing of pressure test boundary.
Outage	=	The number for the refueling outage cycle.
Test Status	=	Complete, Partial, Not Tested, or Not Required
Test Result	=	Clear (No Evidence Of Leakage), Recordable (Evidence Of Leakage - Not Through Wall such as packing leak), Reportable (Evidence Of Through Wall Leakage).
VT-2 Examiner	=	The name of the Level II Visual examiner.
VT-2 Date	=	Date that VT-2 visual examination was performed.
Comments	=	General and/or Detail Description

Current Interval = 3  
Current Period = 2  
Class = A

**Duke Power Company - Oconee Unit 3**  
**Pressure Testing VT-2 Examination Results**

<b>Zone Number</b>	<b>Boundary Drawing</b>	<b>Outage</b>	<b>Test Status</b>	<b>Test Result</b>	<b>VT-2 Examiner</b>	<b>VT-2 Date</b>
OZ3L-1	O-ISIL-100A-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-100A-3.2	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-100A-3.3	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-101A-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-101A-3.4	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-101A-3.5	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-102A-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-102A-3.2	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-102A-3.3	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-110A-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-110A-3.4	18	Complete	Clear	n/a	05/17/2000

Current Interval = 3  
 Current Period = 2  
 Class = B

**Duke Power Company - Oconee Unit 3**  
**Pressure Testing VT-2 Examination Results**

Zone Number	Boundary Drawing	Outage	Test Status	Test Result	VT-2 Examiner	VT-2 Date
IZ3L-27	O-ISIL-102A-3.2	18	Complete	Clear	n/a	04/14/2000
IZ3L-4	O-ISIL-101A-3.1	18	Complete	Clear	n/a	04/17/2000
OZ3H-28	O-ISIH-102A-3.2	18	Complete	Clear	n/a	05/15/2000
OZ3L-1	O-ISIL-100A-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-100A-3.2	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-127B-3.2	18	Complete	Clear	n/a	05/17/2000
OZ3L-18	O-ISIL-101A-3.2	18	Complete	Clear	n/a	04/13/2000
OZ3L-32	O-ISIL-102A-3.3	18	Complete	Clear	n/a	02/28/2000
	O-ISIL-127B-3.2	18	Complete	Clear	n/a	02/28/2000
OZ3L-33	O-ISIL-102A-3.3	18	Complete	Clear	n/a	02/28/2000
	O-ISIL-127B-3.2	18	Complete	Clear	n/a	04/13/2000
OZ3L-42A	O-ISIL-110A-3.1	18	Complete	Clear	n/a	05/17/2000
OZ3L-42B	O-ISIL-110A-3.1	18	Complete	Clear	n/a	05/17/2000
OZ3L-44	O-ISIL-121D-1.2	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-110A-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-121B-3.3	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-121B-3.5	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-121D-3.1	18	Complete	Clear	n/a	05/17/2000
	O-ISIL-122A-3.1	18	Complete	Clear	n/a	05/17/2000
OZ3L-6	O-ISIL-101A-3.1	18	Complete	Clear	N/A	04/20/2000
	O-ISIL-101A-3.2	18	Partial	Clear	n/a	04/20/2000
	O-ISIL-109A-3.1	18	Complete	Clear	n/a	04/20/2000

11.3 Reportable Indications:

None