Duke Power
A Duke Energy Company

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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

xc wo/attachment: Mr. Luis A. Reyes
Administrator, Region II
U.S. Nuclear Regulatory Commission
61 Forsyth Street, S. W., Suite 23T85
Atlanta, GA 30303

D. E. LaBarge, Projects Manager
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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. M. C. Shannon
Senior NRC Resident Inspector
Oconee Nuclear Station

Mr. Virgil R. Autry
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 C. Keith Date 6-27-00

Reviewed By: R C Rouse Date 6/27/00

Approved By: R. Kevin Rhyne Date 6/27/00

214 Pages

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 $8\frac{1}{2}$ 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 19 2000 Signed Duke Energy Corp. By R. Kevin Rhyne
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

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

Date 7-7 19 2000

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

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Oconee Work Control

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Hartford Steam Boiler Inspection
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

TABLE OF CONTENTS

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

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

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

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

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

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

Item Number	*Description*	*Total Examined During Outage*
	Reactor Vessel	
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
	Pressurizer	
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
	Steam Generators	
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)

Item Number	*Description*	*Total Examined During Outage*
	Heat Exchangers	
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
	Piping	
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
TOTALS		2

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

Item Number	*Description*	*Total Examined During Outage*
	Reactor Vessel	
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
	Pressurizer	
B06.060	Bolts and Studs	0
B06.070	Flange Surface, (when connection disassembled)	0
B06.080	Nuts , Bushings and Washers	0
	Steam Generators	
B06.090	Bolts and Studs	NA
B06.100	Flange Surface, (when connection disassembled)	NA
B06.110	Nuts , Bushings and Washers	NA
	Heat Exchangers	
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)

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

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

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

Examination Category B-H Integral Attachments for Vessels

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

Examination Category B-J Pressure Retaining Welds in Piping

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

[1] Longitudinal welds in Examination Category B-J that intersect circumferential welds are examined per Code Case N-524.

Examination Category B-J (Continued)

Item Number	*Description*	*Total Examined During Outage*
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
TOTALS		19

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

Item Number	*Description*	*Total Examined During Outage*
	Piping	
B10.010	Integrally Welded Attachments	NA
	Pumps	
B10.020	Integrally Welded Attachments	NA
	Valves	
B10.030	Integrally Welded Attachments	NA
TOTALS		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**

Item Number	*Description*	*Total Examined During Outage*
	Pumps	
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
	Valves	
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
TOTALS		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

Item Number	*Description*	*Total Examined During Outage*
	Reactor Vessel	
B13.010	Vessel Interior (B-N-1)	1
	Reactor Vessel (PWR)	
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
TOTALS		1

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

Item Number	*Description*	*Total Examined During Outage*
	Reactor Vessel	
B14.010	Welds in CRD Housing	0
TOTALS		0

Examination Category B-P All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

Examination Category B-Q Steam Generator Tubing[2]

Item Number	*Description*	*Total Examined During Outage*
B16.010	Steam Generator Tubing in Straight Tube Design	NA
B16.020	Steam Generator Tubing in U-Tube Design	NA
TOTALS		NA

Examination Category F-A Class 1 Component Supports

Item Number	*Description*	*Total Examined During Outage*
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
TOTALS		29

[2] 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

Item Number	*Description*	*Total Examined During Outage*
C01.010	Shell Circumferential Welds	0
C01.020	Head Circumferential Welds	1
C01.030	Tubesheet to Shell Weld	0
TOTALS		1

Examination Category C-B Pressure Retaining Nozzle Welds in Vessels

Item Number	*Description*	*Total Examined During Outage*
C02.010	Nozzles in Vessels ≤ $^1/_2$" 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)

Item Number	*Description*	*Total Examined During Outage*
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
TOTALS		0

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

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

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

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

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

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

[3] 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

Item Number	*Description*	*Total Examined During Outage*
C05.050	Piping Welds ≥ 3/8" Nominal Wall Thickness for Piping > Nominal Pipe Size 4"	
C05.051	Circumferential Weld	4
C05.052	Longitudinal Weld[3]	NA
C05.060	Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ Nominal Pipe Size 2" and ≤ Nominal Pipe Size 4"	
C05.061	Circumferential Weld	NA
C05.062	Longitudinal Weld[3]	NA
C05.070	Socket Welds	NA
C05.080	Pipe Branch Connections of Branch Piping ≥ Nominal Pipe Size 2"	
C05.081	Circumferential Weld	1
C05.082	Longitudinal Weld[3]	NA
TOTALS		5

[3] 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

Item Number	*Description*	*Total Examined During Outage*
	Pumps	
C06.010	Pump Casing Welds	NA
	Valves	
C06.020	Valve Body Welds	0
TOTALS		0

Examination Category C-H All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

Examination Category F-A Class 2 Component Supports

Item Number	*Description*	*Total Examined During Outage*
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
TOTALS		46

2.3 Augmented Inspections

Item Number	Description	Total Examined During Outage
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 < $3/8$" 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< $3/8$"	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 $\leq 1/5$" 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

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	[4]*Deferral Allowed*
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

[4]Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

Class 1 Inspections (Continued)

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*[5] Deferral Allowed*
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-0	Pressure Retaining Welds in Control Rod Housings	3 Housings	2 Housings	67%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	N/A	N/A	N/A	N/A
F-A F1.010 & F1.040 items.	Class 1 Component Supports (Except Snubbers)	31Supports	16 Supports	52%	No
F-A F1.050 items	Class 1 Component Supports, Snubbers	26 Snubbers	26 Snubbers	100%	No

[5] Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

Class 2 Inspections

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*[5] Deferral Allowed*
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

[5] Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

Augmented Inspections

Description	*Percentage Complete*
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

[redacted] 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					Pipe to				
	Dissimilar				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					Pipe to				
	Dissimilar				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					Nozzle Decay Heat Nozzle to				
	Dissimilar				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					Nozzle Decay Heat Nozzle to				
	Dissimilar				Safe End Buttering				

Total B05.130 Items: 4

Total B05 Items: 4

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

[redacted] Reactor Vessel

DUKE ENERGY CORPORATION
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
****** 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

[redacted] Reactor Vessel

DUKE ENERGY CORPORATION
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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

[redacted] Reactor Vessel

DUKE ENERGY CORPORATION
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
****** Closure Studs, when removed ******									
B06.030.010	3RPV-25-209-10	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)
B06.030.010A	3RPV-25-209-10	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						
B06.030.011	3RPV-25-209-11	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)
B06.030.011A	3RPV-25-209-11	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						
B06.030.012	3RPV-25-209-12	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)
B06.030.012A	3RPV-25-209-12	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						
B06.030.013	3RPV-25-209-13	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)
B06.030.013A	3RPV-25-209-13	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						

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

[redacted] Reactor Vessel

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.014	3RPV-25-209-14	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)
B06.030.014A	3RPV-25-209-14	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						
B06.030.015	3RPV-25-209-15	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)
B06.030.015A	3RPV-25-209-15	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						
B06.030.016	3RPV-25-209-16	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)
B06.030.016A	3RPV-25-209-16	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						
B06.030.017	3RPV-25-209-17	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)
B06.030.017A	3RPV-25-209-17	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						
B06.030.018	3RPV-25-209-18	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)

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

[redacted] Reactor Vessel

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
B06.030.018A	3RPV-25-209-18	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						
B06.030.019	3RPV-25-209-19	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)
B06.030.019A	3RPV-25-209-19	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						
B06.030.020	3RPV-25-209-20	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)
B06.030.020A	3RPV-25-209-20	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						
B06.030.021	3RPV-25-209-21	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)
B06.030.021A	3RPV-25-209-21	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						
B06.030.022	3RPV-25-209-22	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)
B06.030.022A	3RPV-25-209-22	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						

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

DUKE ENERGY CORPORATION
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Inservice Inspection Database Management System

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

[redacted]Reactor Vessel

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

[redacted] Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
****** Closure Washers, Bushings ******									
B06.050.001A	3RPV-WASH-BUSH	50	OM-2201-52	QAL-13	VT-1	CS	0.000		Reactor Vessel Closure Washers & Bushings.Stud
			B&W 149922E				0.000		Holes 10-24
Class A									

Total B06.050 Items: 1

Total B06 Items: 46

DUKE ENERGY CORPORATION
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Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

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

[redacted] CRD Housings

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 Class A	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.
B07.080.002 Class A	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.

Total B07.080 Items: 2

Total B07 Items: 2

CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

DUKE ENERGY CORPORATION
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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 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

[redacted] NPS 4 or Larger

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

[redacted] Less Than NPS 4

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

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3

CATEGORY B-J, Pressure Retaining Welds In Piping

Less Than NPS 4

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.021.067	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

Branch Pipe Connection Welds

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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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
****** 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
	Branch		OFD-100A-3.1				2.875		Reference Request for Relief 95-GO-03 for calibration block.
Class A					Nozzle Decay Heat Nozzle to Pipe				The NPS of the branch line is 12 inches.
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
	Branch		OFD-100A-3.1				2.875		
Class A					Nozzle Decay Heat Nozzle to Pipe				The NPS of the branch line is 12 inches.
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

Socket Welds

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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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

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Inservice Inspection Plan for Interval 3 Outage 4

[redacted] Reactor Vessel

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 0.000		Interior Surfaces of Vessel, use Procedure ISI-354 also
Class A									

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

CATEGORY C-A, Pressure Retaining Welds In Pressure Vessels

[redacted] Head Circumferential Welds

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3
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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

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

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

Pressure Vessels

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
****** 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									

Total C03.010 Items: 2

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

Piping

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3
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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 ******									
C03.020.001	3-01A-H11B	01A	0-2481B	NDE-25	MT	CS	26.000		File no. 0SC-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. 0SC-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. 0SC-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. 0SC-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

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
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Inservice Inspection Plan for Interval 3 Outage 4

[redacted] Piping

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

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

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

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
****** 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

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

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
****** Circumferential Weld ******									
C05.021.007	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				

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

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

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

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				

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

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

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

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
C05.021.064A	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. This weld was originally listed as 3-51A-59-32, until isometric 3-51A-59 was redrawn as 3HP-312. This weld was previously listed as 3HP-312-32, until isometric 3HP-312 was revised and deleted weld 32 and remade it as V2; which is a vendor weld.
	Circumferential		OFD-101A-3.4				0.375		
Class B					Valve 3HP-120 to Pipe				
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. This weld was previously listed as 3HP-312-32, until isometric 3HP-312 was revised and deleted weld 32 and remade it as V2; which is a vendor weld.
	Circumferential		OFD-101A-3.4				0.375		
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

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

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

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

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

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

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

DUKE ENERGY CORPORATION
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.107A	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 block.
	Circumferential		OFD-101A-3.4				0.375		
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

[redacted] Socket Welds

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3
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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

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

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

Total C05.051 Items: 8

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

Pipe Branch Connections of Branch Piping >= NPS 2

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
****** Circumferential Weld ******									
C05.081.003	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 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.
Class B			3MS-12B		Pipe to Pipe				

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

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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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
****** 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

[redacted] Integral Attachment

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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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
D02.020.036	3-03A-H5	03A	1-0-2439C	QAL-14	VT-3	NA	6.000	File No. OSC-1224-23
	Rigid Restraint		OFD-121D-3.1				0.375	Page No. 25.3; Problem No. 3-03A-13
Class C								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
	Rigid Restraint		OFD-121D-3.1				0.500	Page No. 41; Problem No. 3-03A-09
Class C								Emergency Feedwater System
D02.020.045	3-03A-SR185	03A	1-0-2444	QAL-14	VT-3	NA	6.000	File No. OS-524
	Rigid Restraint		OFD-121D-3.1				0.500	Page No. 63; Problem No. 3-03A-07
Class C								Emergency Feedwater System
D02.020.046	3-03A-SR36	03A	1-0-2439B	QAL-14	VT-3	NA	6.000	File No. OS-519
	Rigid Restraint		OFD-121D-3.1				0.125	Page No. 54; Problem No. 3-03A-06
Class C								Emergency Feedwater System
D02.020.051	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; Problem No. 3-03A-07
Class C					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
	Rigid Restraint		OFD-121D-3.1				0.375	Page No. 28; Problem No. 3-03A-12
Class C								Emergency Feedwater System
D02.020.058	3-03A-SR113	03A	1-0-2400A	QAL-14	VT-3	NA	6.000	File No. OSC-526
	Rigid Restraint		OFD-121D-3.1				0.500	Page No. 42; Problem No. 3-03A-09
Class C								Emergency Feedwater System
D02.020.063	3-03A-SR122	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. 28; Problem No. 3-03A-12
Class C								Emergency Feedwater System
D02.020.072	3-03A-SR146	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

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

Integral Attachment

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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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, CHR, Atmos. Cleanup, And Reactor RHR

[redacted] Integral Attachment

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	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. 0SC-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)

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Class 1 Mech. Conn. to Press. Retaining Comp. & Bld. Structure

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**								

CATEGORY F-A, Supports (Category A)

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Class 2 Weld Connections to Building Structure

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.034	3-54A-SR13	54A	3-0-2439A	QAL-14	VT-3	NA	8.000		File No. OSC-556
	Rigid Restraint		OFD-103A-3.1				0.000		Page No. 64.1
Class B									Problem No. 3-54-03
F01.020.037	3-54A-SR21	54A	2-0-2435B	QAL-14	VT-3	NA	10.000		File N0. OS-549
	Rigid Restraint		OFD-102A-3.1				0.280		Page 78; Problem No. 3-53-01
Class B									L P Injection & Decay Heat Removal
F01.020.047	3-51B-H18	51B	2-0-2436C	QAL-14	VT-3	NA	2.000		File No. OSC-538 Page 108
	Rigid Restraint		OFD-101A-3.2				0.000		Prob. No. 51-1 sht.4 of 9
Class B									
Total F01.020 Items:	**3**								
F01.021.003	3-14B-H10	14B	0-2479A	QAL-14	VT-3	NA	6.000		File No. OSC-2056
	Rigid Restraint		OFD-124B-3.2				0.750		Page No. 134
Class B									Problem No. 3-14B-14A;
F01.021.004	3-14B-H19D	14B	0-2479A	QAL-14	VT-3	NA	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.)
F01.021.025	3-53B-R3	53B	5-0-2436D	QAL-14	VT-3	NA	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
F01.021.028	3-54A-SR11	54A	3-0-2444	QAL-14	VT-3	NA	8.000		File No. OSC-556
	Rigid Restraint		OFD-103A-3.1				0.000		Page No. 65.1
Class B									Problem No. 3-54-03

CATEGORY F-A, Supports (Category B)

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

Class 2 Weld Connections to Building Structure

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. 0SC-1335 Page 6(1)-72
	Spring Hgr		OFD-121B-3.3				1.500	Prob. No. 3-03-07
Class B								Main Feedwater System
F01.022.022	3-01A-H7B	01A	0-2480A	QAL-14	VT-3	CS	26.000	File no. 0SC-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

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

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

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.030.010	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
Class C									Problem No. 3-03A-09
									Emergency Feedwater System
F01.030.011	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
Class C									Problem No. 3-03A-09
									Emergency Feedwater System
F01.030.014	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
Class C									Problem No. 3-03A-09
									Emergency Feedwater System
F01.030.017	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
Class C									Problem No. 3-03A-12
									Emergency Feedwater System
F01.030.018	3-03A-H5	03A	1-0-2439C	QAL-14	VT-3	NA	6.000		File No. OSC-1224-23
	Rigid Restraint		OFD-121D-3.1				0.375		Page No. 25.3
Class C									Problem No. 3-03A-13
									Aux Service Water Piping
F01.030.024	3-07A-H68	07A	6-0-2400A	QAL-14	VT-3	NA	12.000		File No. OSC-1211
	Rigid Restraint		OFD-121A-3.8				0.000		Page No. 27
Class C									Problem No. 3-07-05
									System 07A
F01.030.033	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
F01.030.040	3-14B-DE065	14B	0-2436C	QAL-14	VT-3	NA	6.000		File No. OSC-394, Page 83.1
	Rigid Restraint		OFD-121D-1.2				0.000		Problem No. 4-14-3,sht 9 of 9
Class C									Low Pressure Service Water

CATEGORY F-A, Supports (Category A)

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

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

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

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

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

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

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	QAL-14	VT-3	NA	0.000		Low Press. Service Water Pump 3A.Support Legs &
			OFD 124A-3.1				0.000		Pad.Class C
Class C									
F01.040.012	3-LPSW-STR-A		0M 240-0002	QAL-14	VT-3	NA	0.000		Low Press. Service Water Strainer 3A.Support
			OFD 124A-3.1				0.000		Legs.Class C
Class C									

Total F01.040 Items: 2

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

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

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

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
F01.050.018	3-57-H13A	57	0-2481A	QAL-14	VT-3	NA	4.000		File No.OSC-1351-06
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class A									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
	Hyd Snubber		OFD-100A-3.2				1.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									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
	Hyd Snubber		OFD-100A-3.2				0.000		Problem No.3-57-01
Class C									Dwg # 0-3RB-357001-01
									PZR Relief Valve System

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

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. 0SC-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. 0SC-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. 0SC-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. 0SC-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. 0SC-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
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.036	3-03A-SR102PO	03A	1-0-2401A	QAL-14	VT-3	NA	6.000		File no. 0SC-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. 0S-507 Sht 1of2
	Hyd Snubber		OFD-122A-3.2				0.000		Prob. No. 3-01-09
Class B									Main Steam ByPass to Condenser
F01.050.044	3-01A-R12	01A	1-1-0-2401B	QAL-14	VT-3	NA	12.000		File no. 0S-507 Sht 1of2
	Hyd Snubber		OFD-122A-3.2				0.280		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
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

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 N0.= 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. 0SC-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. 0SC-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. 0SC-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. 0SC-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

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
F01.050.054	3-01A-R4	01A	4-2-0-2403D	QAL-14	VT-3	NA	6.000		File no. 0SC-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									

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
F01.050.063 Class C	3-03-DE001 Mech Snubber	03	0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.000	File no. 0SC-512 Page136.1 Prob. No. 3-03-01 Main Feedwater System
F01.050.064 Class C	3-03-SR1 Mech Snubber	03	0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.000	File no. 0SC-512 Page136.1 Prob. No. 3-03-01 Main Feedwater System
F01.050.065 Class C	3-03-SR10 Mech Snubber	03	0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.000	File no. 0SC-512 Page136.1 Prob. No. 3-03-01 Main Feedwater System
F01.050.066 Class C	3-03-SR11 Mech Snubber	03	0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.000	File no. 0SC-512 Page136.1 Prob. No. 3-03-01 Main Feedwater System
F01.050.067 Class C	3-03-SR2 Mech Snubber	03	0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	24.000 0.435	File no. 0SC-512 Page136.1 Prob. No. 3-03-01 Main Feedwater System
F01.050.068 Class C	3-03A-DE054 Mech Snubber	03A	0-2401A OFD-121B-3.3	QAL-14	VT-3	NA	6.000 0.000	File no. 0SC-519 Page55 Prob. No. 3-03A-06 EmergencyFeedwater System
F01.050.069 Class C	3-02A-DE016 Mech Snubber	01A	0-2403A OFD-122A-3.4	QAL-14	VT-3	NA	6.000 0.000	File no. 0SC-510 Sht 2of3 Prob. No. 3-01A-04 Page 68 Main Steam to Emergency F.W. Pump
F01.050.070 Class C	3-03A-DE053 Mech Snubber	03A	0-2402A OFD-121D-3.1	QAL-14	VT-3	NA	6.000 0.000	File No.= OS-519, Page No. 55; Problem No.= 3-03A-06; Emergency Feedwater System
F01.050.071 Class B	3-53B-DE013 Mech Snubber	53B	0-2435B OFD-102A-3.1	QAL-14	VT-3	NA	14.000 0.000	File N0. OS-549 Page 78 Problem No. 3-53-01 L P Injection & Decay Heat Removal

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
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.=
	Mech Snubber		OFD-104A-3.1				0.000	3-56-02; Spent Fuel Cooling
	Class C							
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.=
	Mech Snubber		OFD-104A-3.1				0.000	3-56-02; Spent Fuel Cooling
	Class C							
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;
	Mech Snubber		OFD-102A-3.1				0.000	System 53
	Class B							
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.=
	Mech Snubber		OFD-104A-3.1				0.000	3-56-02; Spent Fuel Cooling
	Class C							
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
	Mech Snubber		OFD-121D-3.1				0.000	No.= 3-03A-14; Aux Service Water Piping
	Class C							
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
	Mech Snubber		OFD-121D-3.1				0.000	No.= 3-03A-14; Aux Service Water Piping
	Class C							
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
	Mech Snubber		OFD-121D-3.1				0.000	No.= 3-03A-14; Aux Service Water Piping
	Class C							
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
	Mech Snubber		OFD-121D-3.1				0.000	No.= 3-03A-14; Aux Service Water Piping
	Class C							
F01.050.080	3-57-NWIZ	57	0-2480A	QAL-14	VT-3	NA	12.000	File No.OSC-1351-06
	Mech Snubber		OFD-100A-3.2				0.000	Problem No.3-57-01
	Class C							Dwg # 0-3RB-357001-01
								PZR Relief Valve System

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
F01.050.081	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"

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
F01.050.089	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. 0SC-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. 0SC-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

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

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. 0SC-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. 0SC-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. 0SC-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									

CATEGORY F-A, Supports

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Spring Supports & Constant Load Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.107	3-50-RCPM-3A1-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton No. OSC-1011-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1						
Class A			OFD-100A-3.3						
F01.050.108	3-50-RCPM-3A1-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton 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						
Class A			OFD-100A-3.3						
F01.050.109	3-50-RCPM-3A1-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton 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						
Class A			OFD-100A-3.3						
F01.050.110	3-50-RCPM-3A2-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton No. OSC-0991, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1						
Class A			OFD-100A-3.3						
F01.050.111	3-50-RCPM-3A2-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton No. OSC-0991, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1						
Class A			OFD-100A-3.3						
F01.050.112	3-50-RCPM-3A2-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton 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						
Class A			OFD-100A-3.3						
F01.050.113	3-50-RCPM-3B1-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton 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						
Class A			OFD-100A-3.3						
F01.050.114	3-50-RCPM-3B1-SS2	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton No. OSC-1011-01-0003, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1						
Class A			OFD-100A-3.3						
F01.050.115	3-50-RCPM-3B1-SS3	50	0-1066A	QAL-14	VT-3	NA	6.000	0.000	Calculaton No. OSC-0991, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-O96-1575.
	Mech Snubber		OFD-100A-3.1						
Class A			OFD-100A-3.3						

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
F01.050.116	3-50-RCPM-3B2-SS1	50	0-1066A	QAL-14	VT-3	NA	6.000	Calculaton 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	Calculaton 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	Calculaton 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								

Total F01.050 Items: 119

Total F01 Items: 148

CATEGORY AUG, Augmented Inspections

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

Oconee 3

Inservice Inspection Plan for Interval 3 Outage 4

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

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

CATEGORY AUG, Augmented Inspections

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

Class 1 RTE Mounting Bosses

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					Nozzle RTE Nozzle to Pipe				
	Dissimilar								
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					Pipe to Nozzle RTE Nozzle				
	Dissimilar								

Total G10.001 Items: 2

Total G10 Items: 2

CATEGORY AUG, Augmented Inspections

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Oconee 3
Inservice Inspection Plan for Interval 3 Outage 4

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 Class A	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 degredation. See 2nd interval request for relief ONS-010.(Note: when item# B06.190.002 is inspected then this inspection will not be required.
G11.001.002 Class A	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 degredation. See 2nd interval request for relief ONS-010.(Note: when item# B06.190.003 is inspected then this inspection will not be required.

Total G11.001 Items: 2

Total G11 Items: 2

CATEGORY AUG, Augmented Inspections

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

[redacted] HPI System Upgrade

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
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)	=	Y Yes N No
RFR	=	Request for Relief Required
Comments	=	General and/or Detail Description

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	

ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
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	

ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
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 geomertry, 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	

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
In-Service Inspection Database Management System
Oconee 3 Inservice Inspection Listing
Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
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	

ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
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	
F01.040.012	3-LPSW-STR-A		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 98270594 was written to correct problems.
F01.050.001	3-03-SR3	03	03/20/2000	CLR	---	N	N	
F01.050.002	3-NPS-03-H28	03A	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. Work Order 98267180 was written to correct problems.
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	
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	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.
F01.050.010	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	
F01.050.012	3-50-H10	50	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. Work Order 98127166 was written to correct problems.
F01.050.013	3-50-H11	50	04/19/2000	CLR	---	N	N	
F01.050.014	3-50-H8	50	04/19/2000	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 98267180 was written to correct problems.
F01.050.015	3-50-H9	50	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. Work Orders 98267180 and 98192811 were written to correct problems.
F01.050.016	3-50-H1	50	04/15/2000	CLR	---	N	N	
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	
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	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
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	
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	
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	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.
F01.050.049	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	
F01.050.052	3-01A-R12	01A	03/07/2000	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. 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	
F01.050.096	3-01A-R10	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.
F01.050.097	3-01A-R6	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.
F01.050.098	3-01A-R9	01A	03/07/2000	CLR	---	N	N	
F01.050.099	3-01A-R3	01A	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.
F01.050.100	3-07A-H70	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.
F01.050.101	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	
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	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.
F01.050.108	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.

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

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

Item Number	***Request for Relief Serial Number***
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

c. Valve 3HP-27 to Elbow:

3-51A-66-40	Item Number C05.021.050

d. Valve 3HP-130 to Pipe:

3-51A-87-54A	Item Number C05.021.064

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 <u>each</u> 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:

Unit 3, Refueling Outages 18

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: R. Kevin Rhyne Date: 6/27/00

Attachment A
RFR 00-003
Sheet 1 of 2

...NBURG

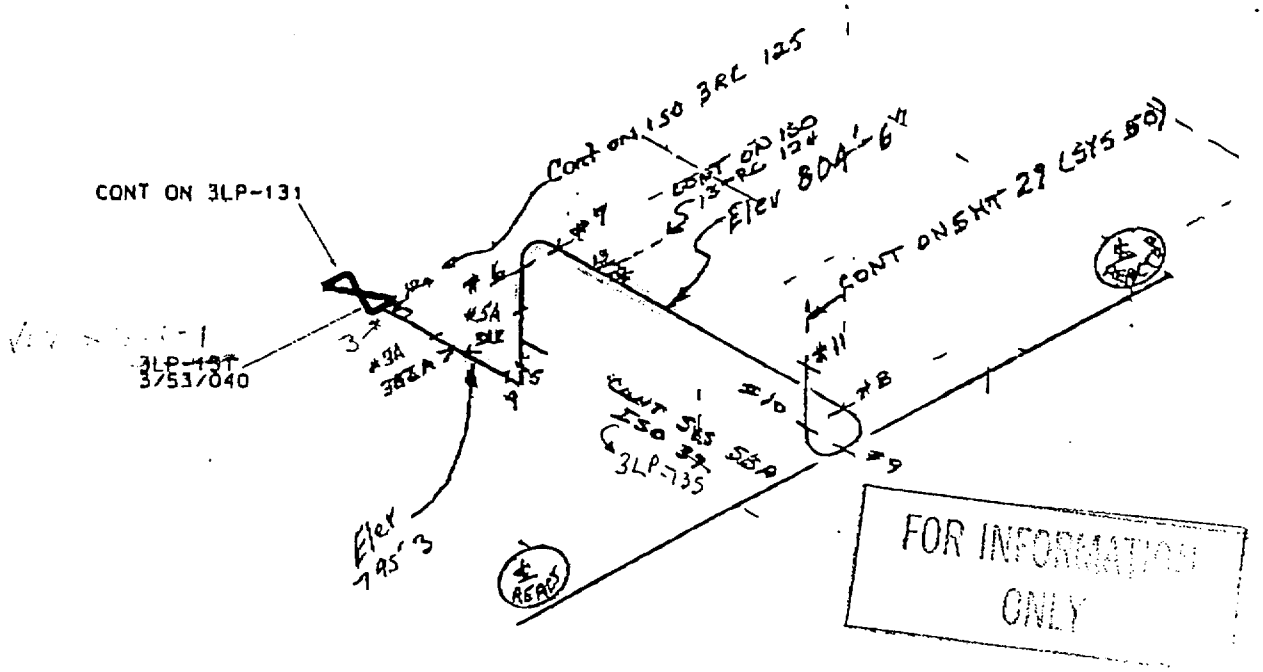
DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT

ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM 53A SUB SYSTEMS (2)(4) UNIT 3 RB ISO NO 1B REV NO 11
CLASS A,B MATERIAL CRES/316 CRES/304 WF DINC PROCEDURE _____ LAST WELD NO 13 DATE 11/8/96

PS 1501 1
831.7

WELDS 1-1Z,2 TRANSFERED SEE DRAWING 3LP-131 FOR WTR



ERN 0X0032768

* 12 PIPE BORED OUT TO 0.375 FOR 3/4 LOOSE HLP CPLG TIE INS

RE- DWG			
DWG			
2478A	12"ØX1 12.5"	3-10 (53A) (R)	
2478D	12 ØX1 12.5"	L,R (53A) (4)	
2479A	CLASS B, CRES/304		
	12"X1 12.5"	3A,5A	
	3/4 Ø x 2.9	12 13	
USM 32401			
*Rimet	12"X1 12.5"	11	INCONEL CRES/316
SOR 807			
OPD-102A 3	ATT WELDS	1*, 3 1*, 3A 2A*	

PAL W... OF SIC ...
DLA

REV		
7	ADD ELEV	
9	ADD CONST.	
10 SDS	12 13	
11 TMS	Relocate weld #12	
11 HLV	OE 9067 W 096030239 REV CONT	

NUMBERS		
		D FT D
1	REPUNCH	
1	1,8 to	
1	CLASS B	
1	CRES/304	
2	Repunch 11	
5	9A,5A	
4	1*, 3A*	
	3A2A	
5	P-T	
5A	RELOCATE	
5A	8A2, 9A2A	

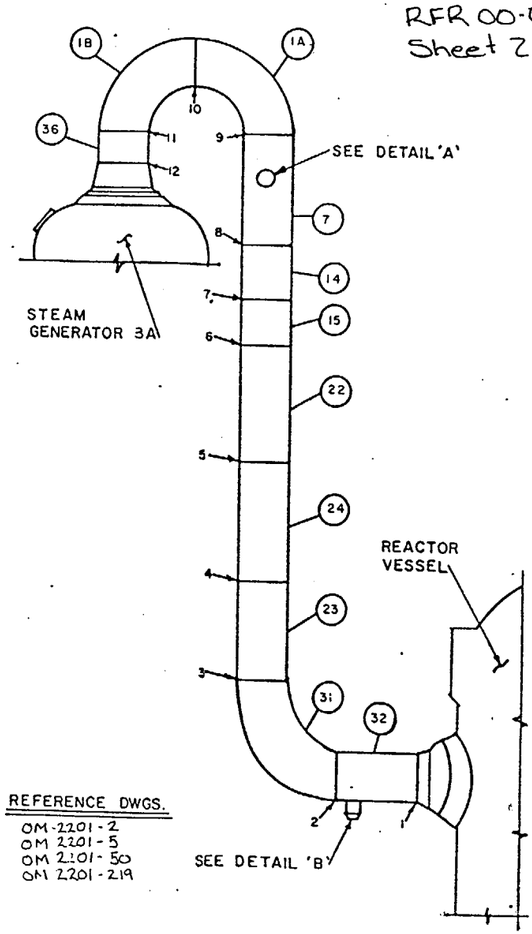
Attachment A
RFR 00-003
Sheet 2 of 2

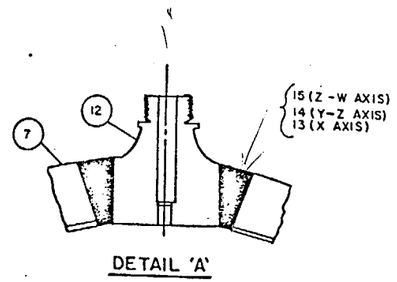
WELD LIST

IDENT NO.	PIECE NO.	DIAM.	THICK.
1	32-REACTOR VESSEL	42.75	2.856
2	32-31	42.75	2.856
3	31-23	42.75	2.856
4	23-24	42.75	2.856
5	24-22	42.75	2.856
6	22-15	42.75	2.856
7	15-14	42.75	2.856
8	14-7	42.75	2.856
9	7-1A	42.75	2.856
10	1A-1B	42.75	2.856
11	1B-36	42 75	2.856
12	36-STEAM GEN 3A	42.75	2.856
13	7-12	9.00	2.875
14	7-12	9.00	2.875
15	7-12	9.00	2.87
16	32-34	25.00	2.875
1ALO	1A	44.00	2.875
1ALI	1A	44.00	2.875
1BLO	1B	44.00	2.875
1BLI	1B	44.00	2.875
31LO	32	44.00	2.875
31LI	32	44.00	2.875
17	34-INCONEL SE Buttering	12.75	1.125

BILL OF MATERIAL

PC. NO.	QTY.	DESCRIPTION	MATL.
NA	1	REACTOR VESSEL NOZZLE	SA 508 CL2
1A	1	90° ELBOW 36" I.D.	SA 516 CS GR 70
1B	1	90° ELBOW 36" I.D.	SA 516 CS GR 70
7	1	36" I.D. PIPE	A106 GR C
14	1	36" I.D. PIPE	A106 GR C
15	1	FLOW METER PIPE	A106 GR C
22	1	36" I.D. PIPE	A106 GR C
23	1	36" I.D. PIPE	A106 GR C
24	1	36" I.D. PIPE	A106 GR C
31	1	36" 90° ELBOW	SA 516 GR 70
32	1	36" I.D. PIPE	A106 GR C
34	1	DECAY HEAT NOZZLE	A105 GR 2
12	3	RTE MOUNTING BOSS	INCONEL B-166
NA	1	STEAM GEN. 3A NOZZLE	SA508-64 CL1
36	1	36" I.D. PIPE	A106 GRC





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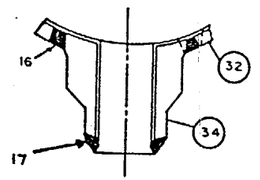
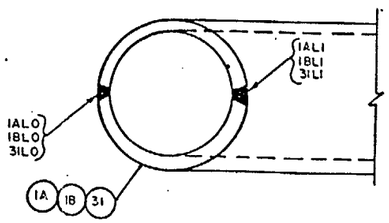


DETAIL 'B'



REFERENCE DWGS.
OM-2201-2
OM 2201-5
OM 2201-50
OM 2201-219

NOTES:
1. ALL WELD NUMBERS WILL BE PRECEDED BY 3PHA-.
2. PIECE NUMBERS WILL BE IDENTIFIED BY CIRCLES.

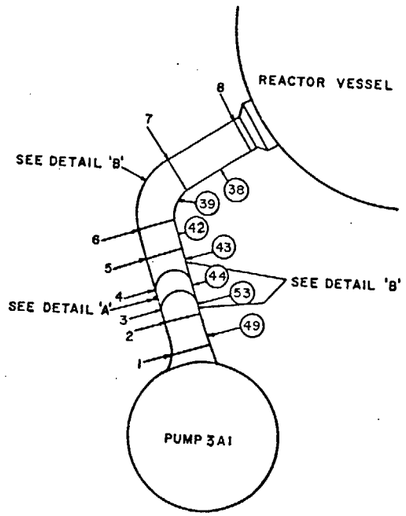
NO.	REVISION	DRWN	RVWD	APPD
0	ORIG.	WSB 12-3-99	TMH 12-4-99	
NO.	REVISION	DRWN DATE	RVWD DATE	APPD DATE

TITLE
STEAM GENERATOR 3A
HOT LEG TO REACTOR VESSEL

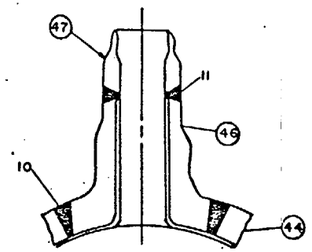
DWG NO. ISI OCN3-005
REV. 0

Attachment B
RFR 00-003
Sheet 1 of 1

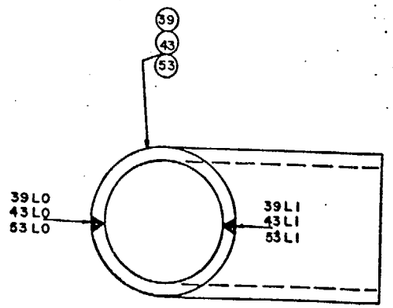
IDENT NO.	PIECE NO.	DIAM.	THICK.	PC. NO.	QTY	DESCRIPTION	MATL.
1	PUMP-49	33.50	2.333	N/A	1	3AI PUMP NOZZLE	A351 CF8
				N/A	1	REACTOR NOZZLE	SA508 CL2
2	49-53	33.50	2.333	38	1	28" I.D. PIPE	A106 GRC
3	53 - 44	33.50	2.333	39	1	28" I.D. ELBOW 75°	SA516 GR70
4	44 - 43	33.50	2.333	43	1	28" I.D. ELBOW 45°	SA516 GR70
5	43 - 42	33.50	2.333	44	1	28" I.D. PIPE	A106 GRC
6	42 - 39	33.50	2.333	42	1	28" I.D. PIPE	A106 GRC
7	38 - 39	33.50	2.333	53	1	28 I.D. ELBOW 45°	SA516 GR70
8	38-REACT. NOZZLE	33.50	2.333				
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 CF8M
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.

NO.	REVISION	DRWN	RVWD	APPD
		DATE	DATE	DATE
1	REVISED MATL. PC. 47	AJH 7-31-24	JEC 7/31/24	[illegible] 7/31/24
0	ORIG.	AWS 12/14/31	TMH 12-14-31	[illegible] 12/14/31

TITLE
PUMP '3A1' DISCHARGE PIPING

DWG NO. ISI OCN3-011 REV. 1

Attachment C
RFR 00-003
Sheet 1 of 1

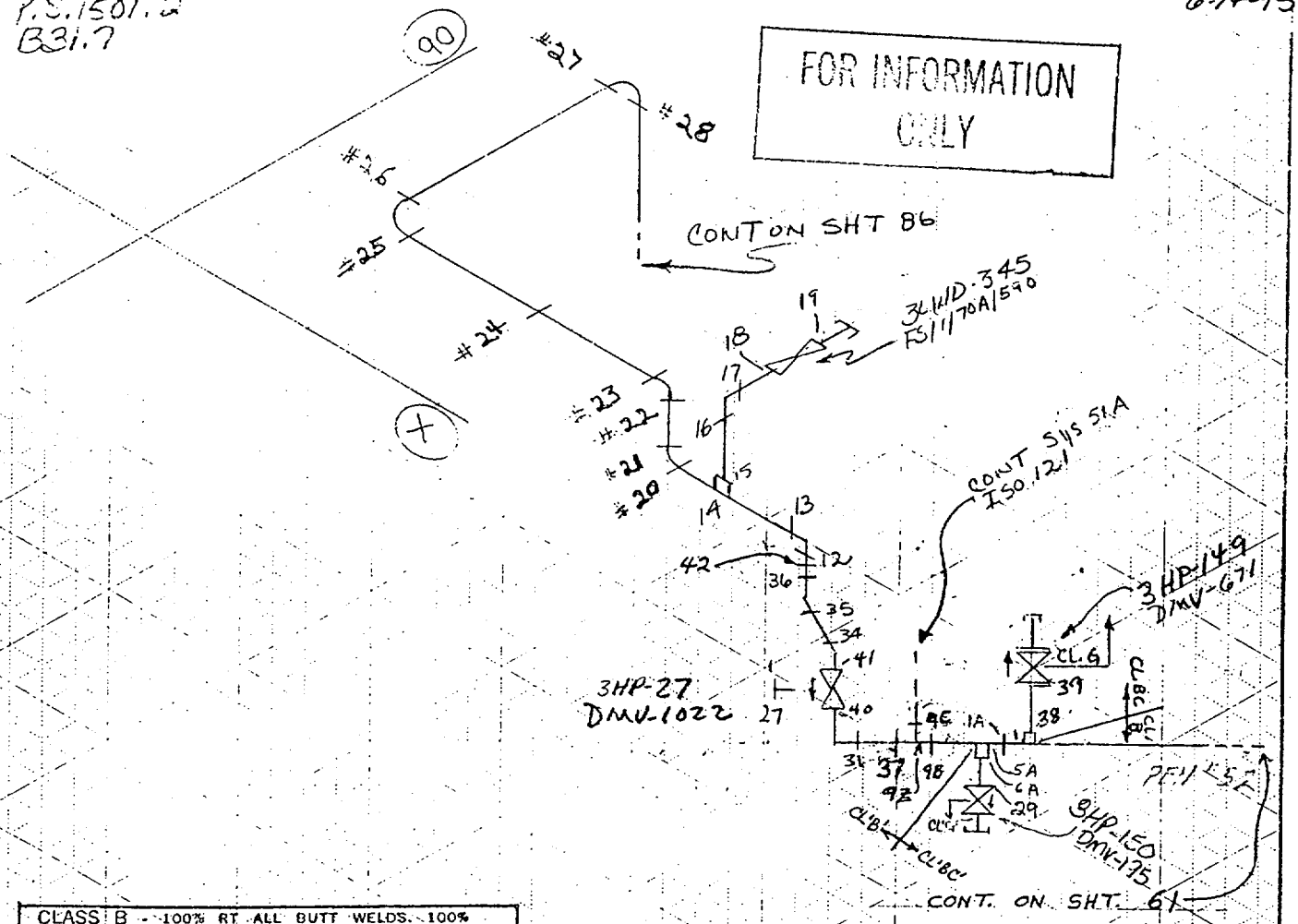
ISOMETRIC SKETCH

PROJECT CALLAWAY SYSTEM CS 1A (316) (1) ISO. 66 REV. NO. 15

CLASS E, BC MATERIAL CRES/316 (2) LAST WELD # 42 DATE 6-14-95

P.S. 1501.2
B31.7

FOR INFORMATION ONLY



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 please ech XXS to sch 160

ERN: 0X00324Z

REF. DWG. NOS. DWG.	REV.	SIZE × WALL THICKNESS	WELD NUMBERS	NDT CODE
2439C	0	1"ϕX.358"	1,5A,6A,29,38,39	6N
OED-101A-3.4		1"ϕx.250"	14-19,	6N
		4"ϕX.674"	9B,9C,1A,37,40	5N
		4"ϕX.531	12,13, 30-36,	5N
			41,42, 34,35,36	5N
VSM 1080		* ATT WELDS: 9Z		6

ISO. REV. NO.	±	CHANGES WELD NOS.
9/CHW	+	9Z
10/DGW	+	29 WR #51345K
	-	3,8
11/	-	9A, 9E, 10B, 11
	+	30-37, OE
15C		WO 9307308B 6228
		WO 9307308T 6229
	-	9D - REVISE SCH OF WELD 30 TO ALLOW SCH 155. OE-6229 W.O 9307308T
12/ 15C		
13/DCL	-	2A,34 OE-7082
	+	38,39 WO9409290H
14/DCL	-	30,32,33 OE-7074
	+	40,41, WO9409290
15/DCL	+	42 OE-7074 WO 94092904

ISO. REV. NO.	±	CHANGES WELD NOS.

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

DLA

NOT {1,5,14} code 6 N

Attachment D
RFR 00-003
Sheet 1 of 1

FORM QR 27	REVISION

PARADISE
CATER

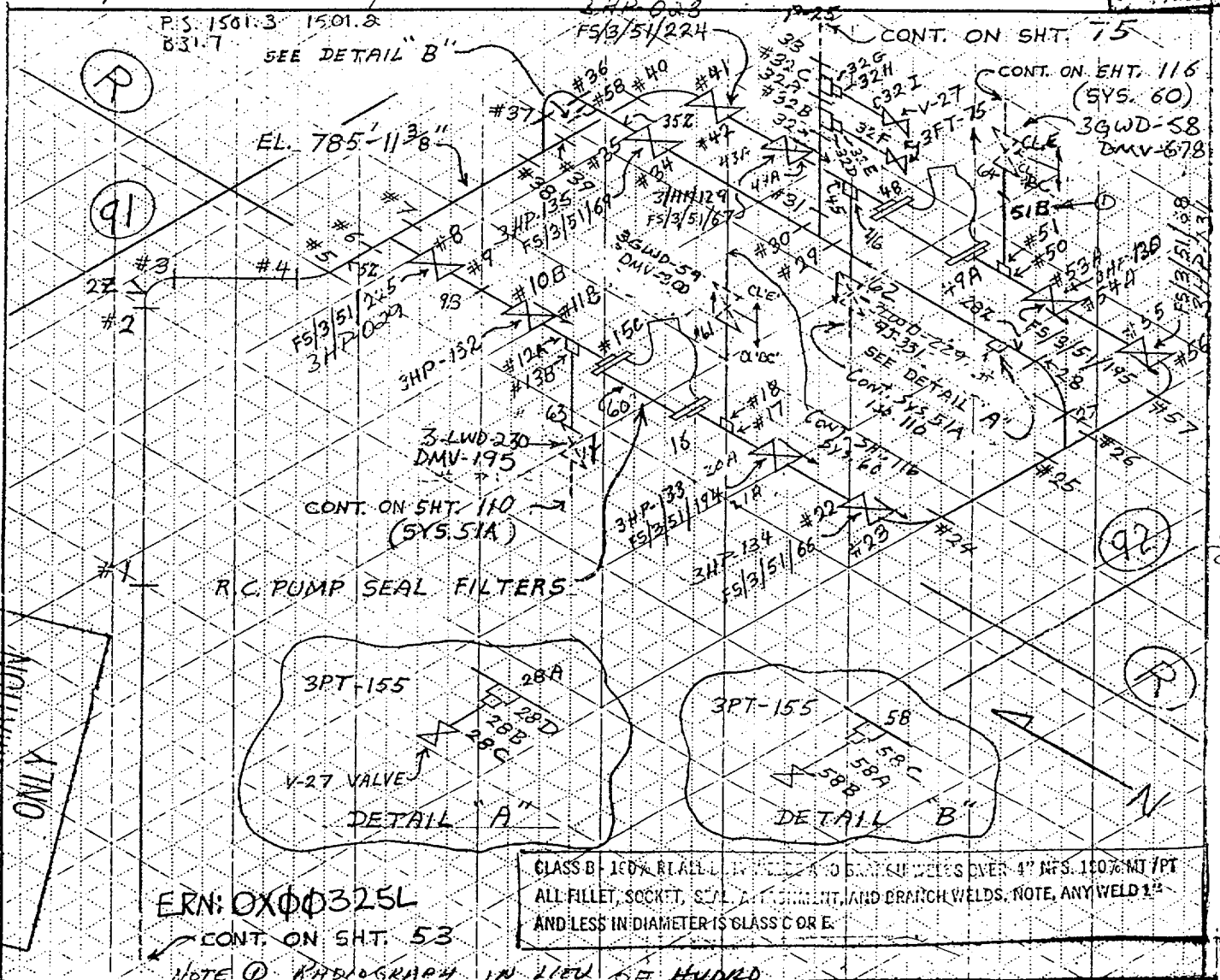
DUKE POWER COMPANY
CONSTRUCTION DEPARTMENT

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

ISOMETRIC SKETCH

PROJECT OCONEE SYSTEM 51A SUB SYSTEMS (1) UNIT 3A,B ISO. NO. *87 REV. NO. 36

CLASS E,B+C MATERIAL CRES/304 WELDING PROCEDURE P-7/P-8 LAST WELD NO. *63 DATE 6-5-92



REF. DWG. NOS. DWG.	REV.	SIZE x WALL THICKNESS	WELD NUMBERS	CLASS	NDT CODE
		5/16" Fillet Weld - *60			
2444	N/A	4" ø x .531"	1-9, 15C, 32A,	B	5 N
2437A			43A, 44A, 53A, 10B, 48, 9B, 55-57	B	5 N
YFD-101A-3,4			14A, 20A, 21A, 11B, 6, 9A, 22-48,	B	5 N
FD-118-3					
WR 51273/F		1" ø x .250	12, 13B, 17, 18, 32G	C	0 N
(47B NDT 5")		63, 58, 28A	45, 46, 50, 51, 51B	C	0 N
(47C NDT 6")		28D, 58C	2C, 2B, 32C, 32D,	C	0 N
Sim-5-750		½" ø x .188"	58A, 58B,	C	0 N
C-1892		½" ø x .188"	29B, 28C, 32E,	C	0 N
SP-2010			32F, 32H, 32I,	C	0 N
SDM C-443	ATT.	WELDS: 2	2Z, 5Z, 28Z, 35Z		6 N

ISO. REV. NO.	±	CHANGES WELD NOS.
13/DWL	−	19, 14A
6/DWL	+	19B, 14B
24/DWL		CORRECTED VALUE SEQ. #
15/DWL	−	14B
	+	14C
16/DWL	−	19B
	+	19C
27/DWL		CORRECTED VALUE SEQ. #
28/DWL	−	47A
	+	47B

ISO. REV. NO.	±	CHANGES WELD NOS.
29/DWL	+	47B
30/DWL	−	46A, 46
	+	59
31/DWL	+	Read 46
	−	59 Never Used
32/DWL	+	60
33/DWL	−	19C
	+	61
34/DL	−	47C
	+	62
35/TSL	−	14C
	+	63 WR 533231
36/DCL	−	52B
	+	64 WO 92017097

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

R.L.M.

D.L.O. WR#52285G WR#05102H
WR 057288 NOT Exception - weld 58, 28A, 17, 12, 50, 45 - code 6

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:

Unit	Mode	%Power	Unit Status	Remarks
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

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

Immediate Corrective Actions:
The sketches idenified 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:

	Indiv	Team	Group	Date
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

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

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: 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

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

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:

Unit	Mode	%Power	Unit Status Remarks
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 catagory 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:

	Indiv	Team	Group	Date
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:

vent 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	
`esponsible Group for Overall PIP Approval:	CEN	Civ, Elect., Nuclear

Signature Type	Indiv	Team	Group	Date
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

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

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

`ther Tracking Processes

ype 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

uality 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

`omments:

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:

Unit	Mode	%Power	Unit Status Remarks
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.

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

	Indiv	Team	Group	Date
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 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:	RGC	Regulatory Compliance
Responsible Group for Overall PIP Approval:	CEN	Civ, Elect., Nuclear

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

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:

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 independence 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

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stated within body of calculation

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.

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 5¼". The support bracket for this girt was welded to the C6x8.2 for about 6" in length, reinforcing the notch in the web.

?) 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
****

Waterhammmer operability evaluation of the un-dedgraded 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.

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 ¼". 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 1½"-3".

Vertical shear at Joint 146 from gravity loads only: Fy =399 lbs
Thickness of C6x8.2 web = 0.20 in (Ref. 8C)
$S = 1/6\ (2)\ (.2)^2 = 0.0133\ in^3$
Distance from face of W8 where yielding stress is reached = (36000)(0.0133)/399 = 1.20 in

For a rectangular section, plastic modulus $Z = ¼\ bh^2 = ¼\ (2)(.2)^2 = 0.02$
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.

Maximum Vertical Shear at Joint 146 = 502 lbs
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:
Fx = 969 lbs
Fy = 1551 lbs
Fz = 394 lbs
Mx = 15,988 in-lbs
My = 1130 in-lbs
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
$Ix = 3.42\ in^3$
$Sx\ top = 10.7\ in^2$
$Sx\ bot = 2.13\ in^2$
$Sy = 19.85\ in^2$

Resultant Weld Force = fr = SQRT[(394 / 14.75 + 15988 / 10.7 + 1130 / 19.85) ² + (969/14.75) ² + (1551/14.75) ²]

fr = 1583 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 = 1583 / ((.707)(27000) = .08 in < 0.25" 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 H18	H19	Comments
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

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	16 lbs	Waterhammer loads are higher
	Fz:	414 lbs	0 lbs	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	51 lbs	Waterhammer loads are higher
	Fz:	2021 lbs	46 lbs	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	25 lbs	Waterhammer loads are higher
	Fy:	379 lbs	0 lbs	Waterhammer loads are higher
Pipe B	Fy:	786 lbs	0 lbs	Waterhammer loads are higher
	Fz:	206 lbs	0 lbs	Waterhammer loads are higher
Pipe C	Fy:	271 lbs	0 lbs	Waterhammer loads are higher
	Fz	1511 lbs	0 lbs	Waterhammer loads are higher
Pipe D	Fx:	1376 lbs	490 lbs	Waterhammer loads are higher
	Fy:	694 lbs	53 lbs	Waterhammer loads are higher
Pipe E	Fy:	557 lbs	14 lbs	Waterhammer loads are higher
	Fz:	303 lbs	82 lbs	Waterhammer loads are higher
Pipe F	Fy:	449 lbs	31 lbs	Waterhammer loads are higher
	Fz:	3970 lbs	225 lbs	Waterhammer loads are higher

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)

ach 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

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 similiar, 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: Fy =399 lbs
Max. Vertical shear at Joint 146 for gravity + seismic loads: Fy = 508 lbs

.atio of Max Shear / Gravity Shear = 508 / 399 = 1.27

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

For a rectangular section, plastic modulus $Z = ¼\ bh^2 = ¼\ (2)(.2)^2 = 0.02$
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.

ırces on Weld:
Fx = 1 lb (Negligible)
Fy = 1093 lbs
Fz = 573 lbs
Mx = 11,911 in-lbs
My = 42 in-lbs

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 in³
Sx top = 10.7 in²
Sx bot = 2.13 in²
Sy = 19.85 in²

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

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.

S/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

ıe 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.

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

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: 1EOC19 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**

Attachments

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:

`epetitive 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:	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: NS

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	SIR 3-01A-0-2441-H17	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
B	SIR 3-01A-0-2441-H16	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
C	SIR 3-01A-0-2441-H4	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
D	SIR 3-01A-0-2441-H3	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
E	SIR 3-01A-0-2441-R9	DPC	NA	NA	NA	NA	(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 items1 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 [signature] 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00
Sheet 2 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	Snubber on S/R 3-01A-0-2441-R9(D)	Grinnell	9452	NA	NA	NA	Repaired, (Replaced,) Replacement	(No) Yes
B	Snubber on S/R 3-01A-0-2441-R9(D)	Lisega	61297-08	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) Yes
C	Snubber on S/R 3-01A-0-2441-R9(C)	Grinnell	9453	NA	NA	NA	Repaired, (Replaced,) Replacement	(No) Yes
D	Snubber on S/R 3-01A-0-2441-R9(C)	Lisega	614153/20	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) Yes
E	Snubber on S/R 3-01A-0-2441-R9(B)	Grinnell	Unknown	NA	NA	NA	Repaired, (Replaced,) Replacement	(No) Yes
F	Snubber on S/R 3-01A-0-2441-R9(B)	Lisega	614213-71	NA	NA	NA	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 items1 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 Lisega snubbers on S/R's 3-01A-0-2441-R9(D), R9(C), 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 DS 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 3-31-00 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 Commissions NC 914
Inspector's Signature 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

1a. Date 5-13-00
Sheet 3 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	Snubber on S/R 3-01A-0-2441-R9(A)	Grinnell	9455 ~~AVA Dsm~~	NA	NA	NA	Repaired, (Replaced,) Replacement	(No) Yes
B	Snubber on S/R 3-01A-0-2441-R9(A)	Lisega	614153/28 ~~AVA Dsm~~	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) Yes
C	S/R3-01A-0-2441-R2	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
D	S/R 3-01A-0-2441-H15	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
E	S/R 3-01A-2441-R7	DPC	NA	NA	NA	NA	(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 items1 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00
Sheet 4 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~~ #: 330S4

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) Yes
B	Snubber on S/R 3-01A-2441-R7	Lisega	614153/32	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) Yes
C	S/R 3-01A-0-2441-R8	DPC	NA	NA	NA	NA	(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 items1 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 a Lisega snubber on S/R 3-01A-2441-R7 Modified S/R 3-01A-0-2441-R8 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 C 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.

MB Chapman Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00
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 # : 98232456
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	S/R 3-01A-0-2401B-H21	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
B	S/R 3-01A-0-2441-R11	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
C	S/R 3-01A-0-2441-R4	DPC	NA	NA	NA	NA	(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 items1 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

_____

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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 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 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00
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 # : 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: 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	SIR 3-05A-2401B-H4457	DPC	NA	NA	NA	NA	~~Repaired~~, 5-13-00 Replaced, Replacement	No 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 items1 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 R 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 3-01-00 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00
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 # : 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	SIR 3-01A-0-2441-H13	DPC	NA	NA	NA	NA	(Repaired), Replaced, Replacement	(No) 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 items1 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 S/R 3-01A-0-2441-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 Mercer 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00
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 # : 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	S/R 3-01A-0-2481B-H2B	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
B	Snubber on S/R 3-01A-0-2481B-H2B	Grinnell	33075	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) Yes
C	S/R 3-01A-0-2481B-H2A	DPC	NA	NA	NA	NA	(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 items1 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-0248 1B-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 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. Mazen 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-13-00

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 _____)

* 98141237

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 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-Z401B-H4299	D.P.Co.	NA	NA		NA	(Repaired), Replaced, Replacement	(No) Yes
B	S/R 3-01A-1-1-0-Z401B-RN	D.P.Co.	NA	NA		NA	(Repaired), Replaced, Replacement	(No) Yes
C	S/R 3-01A-Z401B-RL6	D.P.Co.	NA	NA		NA	(Repaired), Replaced, Replacement	(No) Yes
* D	S/R 3-01A-0-Z481B-H8B	D.P.Co.	NA	NA		NA	(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 items1 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 D. L. Blubaugh 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 Commissions NC 914
Inspector's Signature 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

1a. Date 5/13/00
Sheet 1 of 21

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	S/R 3-01A-0-2401B-R16	D.P.Co	NA	NA		NA	~~Repaired~~, Replaced, Replacement	~~No~~ Yes
B	S/R 3-05A-2401B H5679	D.P.Co.	NA	NA		NA	Repaired, Replaced, ~~Replacement~~	~~No~~ Yes
C	S/R 3-05A-2401-H4303	D.P.Co.	NA	NA		NA	~~Repaired~~, Replaced, Replacement	~~No~~ Yes
D	S/R 3-01A-0-2401B-H20	D.P.Co.	NA	NA		NA	~~Repaired~~, Replaced, Replacement	~~No~~ Yes
E	S/R 3-01A-0-2401B-R12	D.P.Co.	NA	NA		NA	~~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 items1 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 G. L. Bullough 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 3-31-00 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.

WB Chapman Commissions NC914
Inspector's Signature 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

1a. Date 5-3-00
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 # : 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	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	S/R 3-53B-2439B-H5685	DPC	NA	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) Yes
B	S/R 3-53B-S-O-2439B-H54	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
C	S/R 3-53B-S-O-2439B-R14	DPC	NA	NA	NA	NA	(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 items1 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-R14 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 E S Mason
Owner or Owner's Designee, Title

Date 5-3, 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 3-15-00 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.

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

1a. Date 5-9-00
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 # : 98263091
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	S/R 3-538-5-0-2436D-R3	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) 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 items1 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-5-0-2436D-R3

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 5-9, 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.

MB Chapman Commissions NC914
Inspector's Signature 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

1a. Date 5-1-00
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 # : 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	S/R 3-51A-1-0-2439A-H242	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) 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 items1 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 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 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-11-00
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 # : 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, S/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	S/R 3-51A-2439A-H5043	DPC	NA	NA	NA	NA	(Repaired), Replaced, Replacement	(No) Yes
B	S/R 3-51A-2439A-H5044	DPC	NA	NA	NA	NA	(Repaired), Replaced, Replacement	(No) Yes
C	S/R 3-51A-2439C-H5589	DPC	NA	NA	NA	NA	(Repaired), Replaced, Replacement	(No) Yes
D	S/R 3-51A-2439C-H5588	DPC	NA	NA	NA	NA	(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 items1 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'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 Commissions NC914
Inspector's Signature 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

1a. Date 5-10-00

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 # : 98196347
Repair Organization Job #

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

3b. ~~NSM~~ 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	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	VLV. 3HP-428	ANCHOR DARLING	E9127-93-4	Z18		1982	Repaired, ~~Replaced~~, Replacement	No, Yes
B	VLV. 3HP-428	Crane	C8327	ZN		1999	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 items1 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 N 416-1

(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 _____ 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 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.

_____ Commissions NC914
Inspector's Signature National Board, State, Province and Endorsements

Date 5-16, 00

Form 40146( )5)

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	S/R 3-01A-2403D-009	DPC	NA	NA	NA	NA	☒ Repaired ☐ Replaced ☐ Replacement	☒ No ☐ 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 401463 (2-95)

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 D & 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.

LMB Chapman Commissions NC 914
Inspector's Signature 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

1a. Date 5-1-00
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 # : 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	Bolting	DPC	NA	NA	NA	NA	Repaired, (Replaced) Replacement	(No) 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 items1 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 D. Mason 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.

M.B. Chapman Commissions NC914
Inspector's Signature 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

1a. Date 5-2-00
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 # : 98177255
Repair Organization Job #

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

3b. ~~NCM~~ or MM #: 0E-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	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	S/R 3-53B-2439C-H5688	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	(No) Yes
B	S/R 3-53B-2439C-H5686	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	(No) Yes
C	S/R 3-53B-2439C-H5687	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	(No) Yes
D	S/R 3-GH-ST-9091-01	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
E	S/R 3-53B-2438B-H5645	DPC	NA	NA	NA	NA	(Repaired,) Replaced, Replacement	(No) Yes
F	S/R 3-53B-6-D-2439C-H108	DPC	NA	NA	NA	NA	(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 items1 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 Added new S/R's 3-53B-2439C-H5688, 3-53B-2439C-H5686 and 3-53B-2439C-H5687
Modified S/R 3-GH-ST-9091-01 IAW OE-13694
Modified S/R 3-53B-2438B-H5695 IAW OE-13694
Modified S/R 3-53B-2439C-H108 IAW OE-13694

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 C.S. 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 Commissions NC914
Inspector's Signature National Board, State, Province and Endorsements

Date 5-16, 00

Form 401430 (95)

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

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_____)

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 # 98073114
Repair Organization Job #

3b. NSM or MM # NA

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	Bolting	DPC	NA	NA	NA	NA	☐ Repaired ☒ Replaced ☐ Replacement	☒ No ☐ 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 401463 (2-95)

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 S 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 3-1-99; 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.

MB Chapman Commissions NC914

Inspector's Signature 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

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 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	BOLTING & SPLIT RING	NA	NA	NA		NA	Repaired, Replaced, Replacement	(No) 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 items1 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

(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] QA SPECIALIST Date 6-6, 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 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] Commissions NC 914
Inspector's Signature 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

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 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	BOLTING & SPLIT RING	NA	NA	NA		NA	Repaired, Replaced, Replacement	No 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 items1 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 ~~[signature]~~ 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.

[signature] Commissions NC914
Inspector's Signature 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

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, 1973 Addenda, SUMMER 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	QUICK VENT CLOSURE INSERTS ON CRDM's.	B&W	NA	NA	NA	NA	Repaired, Replaced, Replacement	(No) 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 items1 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 41, 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 [signature] QA Date 6-7, 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 5-5-00 to 6-10-00; 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] Commissions NC914
Inspector's Signature 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

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 SUMMER 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	BOLTING & SPLIT RING	NA	NA	NA		NA	Repaired, Replaced, Replacement	No 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 items1 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] QA Date 6-7, 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 4-31-00 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] Commissions NC914
Inspector's Signature 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

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 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	BOLTING	NA	NA	NA		NA	Repaired, Replaced, Replacement	(No) 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 items1 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 ~~Richard L. Burbaugh~~ QA SPECIALIST Date 6/19, 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 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.

WMB Chapman Commissions NC914
Inspector's Signature National Board, State, Province and Endorsements

Date 6-20-00 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	BOLTING FOR RCP 3B1 MAIN FLANGE	NA	PUMP S/N 2P2781	NA	NA	NA	Repaired, Replaced, (Replacement)	(No) 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 items1 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 [signature] QA SPECIALIST Date 8-17-99
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 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.

[signature] Commissions NC914
Inspector's Signature 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

1a. Date 5-2-00

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 # : 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	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	VLV. 3LP-18	ANCHOR DARLING	ET-695-1-1	1757		1993	Repaired, (Replaced), Replacement	No (Yes)
B	VLV. 3LP-18	FLOW SERVE	D426A-1-5	2123		1999	Repaired, Replaced, (Replacement)	No (Yes)
C	PIPING	D.P. Co.	NA			12/74	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 items1 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. SLP-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 D B Mason Date 5-15, 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 3-15-00 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.

M B Chapman Commissions NC914
Inspector's Signature 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

1a. Date 4-25-00
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 # : 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: 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 ~~Yes~~
B	VLV. 3LP-17	ANCHOR DARLING	ET695-1-2	1768		1994	Repaired, ~~Replaced~~, Replacement	No ~~Yes~~
C	PIPING	D.P.CO	NA	NA		12/94	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 items1 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 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] 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] Commissions NC914
Inspector's Signature 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

1a. Date 5/10/00
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 # : 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	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	PIPING	D.P.Co.	NA	NA		12/74	Repaired, Replaced, Replacement	No 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 items1 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 D 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 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~~ 6-5-00 ~~MBC 5-30~~ ; 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 NC914
Inspector's Signature National Board, State, Province and Endorsements

Date ~~5-31~~ 6-5 . 00
~~MBC 5-30~~

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 5-4-00

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 # : 98238122
Repair Organization Job #

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

3b. NSM or ~~MM #~~: 13696

4. (a) Identification of System: LP

4. (b) Class of System: 1

5. (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 ~~Yes~~
B	VLV 3LP-46	FLOWSERVE	E835A-1-1	2269		2000	Repaired, Replaced, ~~Replacement~~	No ~~Yes~~
C	PIPING	D.P.Co.	N/A	N/A		12/74	Repaired, Replaced, ~~Replacement~~	~~No~~ Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

* NOTE VLV. REMOVED WAS 1".

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 items1 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 N 416-1

(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 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 Commissions NC914
Inspector's Signature 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

1a. Date 4-21-00
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 # : 98200088
Repair Organization Job #

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

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	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	3HP-120	CCI DRAG	906573-1-1	NA		NA	Repaired, Replaced, (Replacement)	No (Yes)
B	3HP-120	LESLIE	NA	NA		NA	Repaired, (Replaced), Replacement	(No) Yes
C	PIPING	D.P. Co.	NA	NA		12/74	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 items1 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 E L Morson 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-2-00
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 # : 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: SF

4. (b) Class of System: 2

5. (a) Applicable Construction Code: ~~ASME~~ ASME III Edition, 1974 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	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	VLV. 3SF-82	BORG WARNER	58982	2206		1980	Repaired, ~~Replaced~~, Replacement	No ~~Yes~~
B	VLV. 3SF-82	VECNN	992112-2	NA		NA	Repaired, Replaced, ~~Replacement~~	No ~~Yes~~
C	PIPING	D.P.Co.	NA	NA		NA	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 items1 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. 3SF-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 N 416-1

(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 5-16, 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-2-00
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 # : 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: 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	VLV. 3BS-10	VELAN	1932	NA		NA	Repaired, Replaced, Replacement	No Yes
B	3BS-9	"	19134/C	NA		NA	Repaired, Replaced, Replacement	No Yes
C	3BS-7	"	1912	NA		NA	Repaired, Replaced, Replacement	No Yes
D	3BS-8	"	0267	NA		NA	Repaired, Replaced, Replacement	No Yes
E	PIPING	D.P.Co.	NA	NA		12/74	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 items1 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 VLVs. 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 CodeCase 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 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 Commissions NC914
Inspector's Signature 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

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: 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	PIPING	D.P.Co.	NA	NA		12/74	Repaired, Replaced, Replacement	No / 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 items1 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, 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 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.

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

Date 6-5, 00

Form 40146[illegible]-95)

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** NIS 1/14/99

3b. NSM or MM # NA

4. Identification of System RC Class A (2)

5. (a) Applicable Construction Code ANSI B31.7 19 69 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	B+W	NA	NA	NA	NA	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ Yes
B	ASSY. FOR CRDM# 9 CLOSURE INSERT H-6						☐ 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 401463 (2-95)

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 ASS'Y. 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/A**

Certificate of Authorization No. **N/A** Expiration Date **N/A**

Signed M. L. Bilbrough QA TECH. SPEC. Date 1-14, 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 11-26-98 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 Commissions NC914
Inspector's Signature National Board, State, Providence and Endorsements

Date 1-14, 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_____)

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 # 98094892-01
Repair Organization Job #

3b. NSM or MM # _____

4. Identification of System RC Class 1(A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, NA 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	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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 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 [signature] 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.

[signature] Commissions NC914
Inspector's Signature National Board, State, Providence and Endorsements

Date 1-21, 19 99

Order by St .de 401463 . orm 401463 (2-95)

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 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. 6 AT LOCATION F-8.	N/A	N/A	N/A		N/A	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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 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 M. L. 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 Commissions NC 914
Inspector's Signature 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_____)

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 # 98094893-01
Repair Organization Job #

3b. NSM or MM # _____

4. Identification of System RC Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Aug. Addenda, NA 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.	NA	NA	NA		NA	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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 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. L. Blubaugh 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 10-31-98 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 Commissions NC914
Inspector's Signature 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 19 69 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	BOLTING ON CRDM FLANGE NO. 54 AT LOCATION 0-11	NA	NA	NA		NA	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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 CROM 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. L. 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 Commissions NC914
Inspector's Signature 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** 1a. Date 1-20-99
   Address **526 S. Church Street, Charlotte, NC 28201-1006**
   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 RC Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 19 69 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	BOLTING ON CRDM FLANGE No. 18 AT LOCATION M-9	NA	NA	NA		NA	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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)

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7. Description of Work REPLACED BOLTING ON CRDM No. 18 FLANGE AT LOCATION M-

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 G. L. Bludau 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.

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M B Chapman Commissions NC914

Inspector's Signature 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_____)

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 # 98090084-01
Repair Organization Job #

3b. NSM or MM # _____

4. Identification of System RC Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, Aug. Addenda, NA 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. 24 AT LOCATION N-8.	NA	NA	NA		NA	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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)

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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 H. L. 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 Commissions NC914

Inspector's Signature National Board, State, Providence and Endorsements

Date 1-21, 1999

Order by St ,de 401463

. orm 401463 (2-95)

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_____)

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 # 98098604
Repair Organization Job #

3b. NSM or MM # _____

4. Identification of System RC Class 1 (A)

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, Win. 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	BOLTING ON CRDM FLANGE #57 AT LOCATION E-3.	N/A	N/A	N/A		N/A	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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)

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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 D. L. 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 10-29-98 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.

MB Chapman Commissions NC914
Inspector's Signature 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_____)

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 # 98015028
Repair Organization Job #

3b. NSM or MM # _____

4. Identification of System RC Class 1

5. (a) Applicable Construction Code ANSI B31.7 19 69 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	B&W	NA	NA	NA	NA	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ Yes
B	ASSY. FOR INSERT #55						☐ 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 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. L. Bubany 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.

M B Chapman Commissions NC914
Inspector's Signature National Board, State, Providence and Endorsements

Date 2-10, 1999

Form 40146 . 95)

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

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_____)

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 # 98011348-01
Repair Organization Job #

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	☐ Repaired ☐ Replaced ☒ Replacement	☒ No ☐ 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 401463 (2-95)

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 Hoohn QC Specialist Date 3-24, 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 10-16-98 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 Commissions NC914
Inspector's Signature National Board, State, Providence and Endorsements

Date 3-24, 1999

Form 40146[illegible]-95)

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

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_____)

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 # 98011295-01
Repair Organization Job #

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-68	Dresser	BL-8896	N/A	N/A	96	☐ Repaired ☒ Replaced ☐ Replacement	☐ No ☒ Yes
B	Valve 3RC-68	Dresser	BL08895	N/A	N/A	N/A	☐ 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 401463 (2-95)

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.

T.M.B. Chapman Commissions NC 914
Inspector's Signature National Board, State, Providence and Endorsements

Date 5-19, 1999

Form 40146(, 95)

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

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_____)

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 # 98011294-01
Repair Organization Job #

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	☐ Repaired ☒ Replaced ☐ Replacement	☐ No ☒ Yes
B	Valve 3RC-67	Dresser	BL08891	N/A	N/A	N/A	☐ 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 401463 (2-95)

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 Marcon 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 11-11-98 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-17-00
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 # : 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	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	Valve 3LPSW-8	Crane	3021770-02	N/A	N/A	N/A	Repaired, Replaced, (Replacement)	(No) 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 items1 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 A Hoobs 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 Commissions NC914
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

1a. Date 5-17-00
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 # : 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	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	Valve 3LPSW-10	Crane	Unavailable	N/A	N/A	N/A	Repaired, Replaced, (Replacement)	No 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 items1 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 P Hoops 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.

WB 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

1a. Date 5-5-00
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 # : 98206448
Repair Organization Job #

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

3b. NSM or ~~MM~~ #: 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	VLV. 3HP-66	DRAG	708831-1-8	48		2000	Repaired, Replaced, ~~Replacement~~	No ~~Yes~~
B	VLV. 3HP-66	ANDERSON GREENWOOD	NA	NA		NA	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 items1 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 D S Mason Date 6-1, 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 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.

MB Chapman Commissions NC914
Inspector's Signature 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

1a. Date 5-2-00
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 # : 98204056-01
Repair Organization Job #

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

3b. ~~NSM~~ or MM #: 0E-13702

4. (a) Identification of System: RC

4. (b) Class of System: 1

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	VLV. 3RC-1	TARGET ROCK	1	780	1999	~~1975~~ NA	Repaired, Replaced, ~~Replacement~~	No ~~Yes~~
B	VLV. 3RC-1	TARGET ROCK	1	NA		1976	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 items1 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 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 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 Commissions NC914
Inspector's Signature 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

1a. Date 5-16-00
Sheet ___ of ___

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 # : 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: 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	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	3-53B-50-2435D-SR42	DPC	N/A	N/A	N/A		(Repaired), Replaced, Replacement	(No) Yes
B	3-53B-5-0 2435D-SR41	DPC	N/A	N/A	N/A		(Repaired), Replaced, Replacement	(No) Yes
C	3-53B-5-0 2435D-H74	DPC	N/A	N/A	N/A		(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 items1 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 SNUBERS, 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

(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.D. 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 Commissions NC 914
Inspector's Signature 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).

Examination Category	*Test Requirement*	*Total Examinations Required For This Period*	*Total Examinations Credited For This Period*	*(%) Examinations Complete For This Period*
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

This Re[illegible] Was Generated On:
06/27/2000

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

This Report Was Generated On:
06/27/2000

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

This Report Was Generated On:
06/27/2000

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
	O-ISIL-127B-3.2	F	Nitrogen Purge and Blanket	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3L-33	O-ISIL-102A-3.3	I	Low Pressure Injection	VT-2	QAL-15	C7.30 C7.70	N/A
	O-ISIL-127B-3.2	F	Nitrogen Purge and Blanket	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3L-42A	O-ISIL-110A-3.1	I	Chemical Addition	VT-2	QAL-15	C7.30	N/A
OZ3L-42B	O-ISIL-110A-3.1	I	Chemical Addition	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3L-44	O-ISIL-121D-1.2	F	Emergency Feedwater	VT-2	QAL-15	C7.30 C7.70	N/A
	O-ISIL-110A-3.1	I	Chemical Addition	VT-2	QAL-15	C7.30 C7.70	N/A
	O-ISIL-121B-3.3	I F	Feedwater	VT-2	QAL-15	C7.30 C7.70 D2.11	N/A
	O-ISIL-121B-3.5	F	Feedwater	VT-2	QAL-15	C7.30 C7.70 D2.11	N/A
	O-ISIL-121D-3.1	F	Emergency Feedwater	VT-2	QAL-15	C7.30 C7.70 D2.11	N/A
	O-ISIL-122A-3.1	I	Main Steam	VT-2	QAL-15	C7.30 C7.70	N/A
OZ3L-6	O-ISIL-101A-3.1	I F	High Pressure Injection	VT-2	QAL-15	C7.30 C7.70	N/A

This Report Was Generated On:
06/27/2000

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
	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

Zone Number	Boundary Drawing	Outage	Test Status	Test Result	VT-2 Examiner	VT-2 Date
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