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Duke Power

Oconee Nuclear Site 7800 Rochester Highway Seneca, SC 29672 (864) 885-3107 OFFICE (864) 885-3564 FAX

March 14, 2000

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

Subject: Dul

Duke Power Company

Oconee Nuclear Station, Unit 2

Docket No. 50-270

Unit 2 EOC 17 Refueling Outage Inservice Inspection Report

Third Ten-Year Inservice Inspection Interval

Please find attached a copy of the Inservice Inspection Report for Oconee Unit 2 End of Cycle 17 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,

Site Vice-President

Attachment

U. S. Nuclear Regulatory Commission March 14, 2000 Page 2

xc wo/attachment: Mr. Luis A. Reyes

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 Office of Nuclear Reactor Regulation 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
2600 Bull St.
Columbia, SC 29201

February 29, 2000

Randy Todd Oconee Compliance Oconee Nuclear Station

Re: Inspection Report for Oconee Unit 2 EOC 17

Randy, please send this report to the NRC's document control. If you have any questions or concerns about this report, give me or Larry Keith a call at 382-5111 or 382-3141.

R. G. Rouse

Nuclear Services Division

Nuclear Generation Department

INSERVICE INSPECTION REPORT

DUKE POWER COMPANY OCONEE NUCLEAR STATION UNIT 2 SEVENTEENTH REFUELING OUTAGE



A Duke Energy Company

INSERVICE INSPECTION REPORT

UNIT 2 OCONEE 1999 REFUELING OUTAGE 17

Location: 7800 Rochester Highway, Seneca, SC 29672

NRC Docket No. 50-270

Commercial Service Date: September 9, 1974

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

Revision 0

Prepared By:	Charry Co Keeth	_ Date	2-14-00
Reviewed By:	RyRouse	_ Date	2/14/00
Approved By:	R. Kevin Phyne	_ Date	2/16/00

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

1. Owner: <u>Du</u>	1. Owner: <u>Duke Energy Corporation, 526 S. Church St Charlotte, NC 28201-1006</u> (Name and Address of Owner)			
2. Plant: Oc	Plant: Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29672 (Name and Address of Plant)			
3. Plant Unit	:: <u>2</u> 4. Owner	Certificate of Author	orization (if require	ed) <u>N/A</u>
5. Commercia	al Service Date: S	<u>September 9, 1974</u>	6. National Bo	ard Number for Unit N/A
7. Componen	ts Inspected:			
Component or Appurtenance	Manufacturer Installer	Manufacturer Installer Serial No.	State or Province No.	National Board No.
	See Sec	eti <u>on 1.1 in the A</u> ttach	ned Report	
	-			
•				

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

FORM NIS-1 (Back)

8. Examination Dates May 25, 1998 to December 16, 1999			
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: April 7, 1998 / Revision 4	_		
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 to conform to the rules of the ASME Code, Section XI.	ken		
Certificate of Authorization No. (if applicable) NA Expiration Date NA	_		
Date Z/16/00 Signed Duke Energy Corp. By L. Lewin Physics	2		
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			
<u>MB Chapman</u> Commissions <u>NC 9/4</u> Inspector's Signature National Board, State, Province, and Endorsement	onts		
Date 2.29-2000	511 6 S		

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

Atlanta, GA. 30338

DISTRIBUTION LIST

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

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

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1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's Oconee Nuclear Station, Unit 2, during the 1999 Refueling Outage (also referred to as Outage 17). Outage 17 is the first 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 May 25, 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	620-0003-51-52	N/A	N-105
Steam Generator A	Babcock & Wilcox	620-0003-55-1	N/A	N-107
Steam Generator B	Babcock & Wilcox	620-0003-55-2	N/A	N-108
Pressurizer	Babcock & Wilcox	620-0003-59	N/A	N-106
Main Steam System	Duke Power	NA	NA	NA
Auxiliary Steam System	Duke Power	NA	NA	NA
Feedwater System	Duke Power	NA	NA	NA
Emergency Feedwater System	Duke Power	NA	NA	NA
Steam Generator Flush System	Duke Power	NA	NA	NA
Condensate System	Duke Power	NA	NA	NA
Vents and Exhaust System	Duke Power	NA	NA	NA
Condenser Circulating Water	Duke Power	NA	NA	NA

High Pressure Service Water System	Duke Power	NA	NA	NA
Low Pressure Service Water System	Duke Power	NA	NA	NA
Reactor Coolant System	Duke Power	NA	NA	NA
High Pressure Injection System	Duke Power	NA	NA	NA
Low Pressure Injection System	Duke Power	NA	NA	NA
Reactor Building Spray System	Duke Power	NA	NA	NA
Component Cooling System	Duke Power	NA	NA	NA
Spent Fuel Cooling System	Duke Power	NA	NA	NA
Vents - Reactor Building Components	Duke Power	NA	NA	NA
Drains - Reactor Building Components	Duke Power	NA	NA	NA

Authorized Nuclear Inservice Inspector(s) 1.2

Name:

M. B. Chapman

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 <u>Summary of Inservice Inspections</u>

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during Outage 17 at Oconee Nuclear Station Unit 2.

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	ne project and the
B02.021	Circumferential	NA
B02.022	Meridional	NA NA
	Steam Generator (Primary Side)	
B02.030	Head Welds	3 44 5 - 10 10 10 10 10 10 10 10 10 10 10 10 10
B02.031	Circumferential	0
B02.032	Meridional	N/A
B02.040	Tubesheet to Head Weld	2
8. 3.	Heat Exchangers (Primary Side) Head	
B02.050	Head Welds	
B02.051	Circumferential	NA NA
B02.052	Meridional	NA
	Heat Exchangers (Primary Side) Shell	
B02.060	Tubesheet to Head Welds	0
B02.070	Longitudinal Welds	NA NA
B02.080	Tubesheet-to-Shell Welds	NA NA
TOTALS		2

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	4
B03.120	Nozzle Inside Radius Section	4
	Steam Generators (Primary Side)	
B03.130	Nozzle-to-Vessel Welds	3
B03.140	Nozzle Inside Radius Section	3
	Heat Exchangers (Primary Side)	
B03.150	Nozzle-to-Vessel Welds	
B03.160	Nozzle Inside Radius Section	0
TOTALS		14

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	o
B05.050	Nominal Pipe Size Less Than 4" Nozzle- to-Safe End Butt Welds	0
B05.060	Nozzle-to-Safe End Socket Welds	NA
tere (Last 2.2.1 de	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
Part Part Part Part Part Part Part Part	Heat Exchangers	e a
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	3
B05.140	Nominal Pipe Size Less Than 4" Dissimilar Metal Butt Welds	4
B05.150	Dissimilar Metal Socket Welds	NA
TOTALS		7

Examination Category B-G-1

Pressure Retaining Bolting, Greater Than 2" in Diameter

Item		Total Examined
Number	Description	During Outage
	Reactor Vessel	
B06.010	Closure Head Nuts	5
B06.020	Closure Studs, (in place)	NA
B06.030	Closure Studs, (when removed)	5
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
120	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)

ltem 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
10 A 10 THE	Pumps	
B06.180	Bolts and Studs	0
B06.190	Flange Surface, (when connection disassembled)	1
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		12

Examination Category B-G-2

Pressure Retaining Bolting, 2" and Less in Diameter

Item		Total Examined
Number	Description	During Outage
and the second	Reactor Vessel	
B07.010	Bolts, Studs, and Nuts	NA
	Pressurizer	
B07.020	Bolts, Studs, and Nuts	1
	Steam Generators	ap in the second
B07.030	Bolts, Studs, and Nuts	0
with Tolky	Heat Exchangers	
B07.040	Bolts, Studs, and Nuts	NA
	Piping	
B07.050	Bolts, Studs, and Nuts	2
12.00 Mg (10.00 Mg)	Pumps	247-1 4
B07.060	Bolts, Studs, and Nuts	NA
	Valves	
B07.070	Bolts, Studs, and Nuts	0
	CRD Housings	# 12 C T T T
B07.080	Bolts, Studs, and Nuts In CRD Housing When Disassembled	2
TOTALS		5

Examination Category B-H Integral Attachments for Vessels

Item Number	Description	Total Examined During Outage
	Reactor Vessel	
B08.010	Integrally Welded Attachments	NA
A CONTRACTOR OF THE PARTY OF TH	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	10
B09.012	Longitudinal Welds ¹	0
B09.020	Nominal Pipe Size Less Than 4"	
B09.021	Circumferential Welds	14
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	0
B09.032	Less Than Nominal Pipe Size 4"	0
B09.040	Socket Welds	2
TOTALS		26

Examination Category B-K-1

Integral Attachments for Piping, Pumps and Valves

Item Number	Description	Total Examined During Outage
	Piping	ALBERTALISM TO THE
B10.010	Integrally Welded Attachments	NA
	Pumps	
B10.020	Integrally Welded Attachments	NA
	Valves	an de la company
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
至失為當	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)	2
TOTALS		2

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
Barren e	Reactor Vessel	
B13.010	Vessel Interior (B-N-1)	o
	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		0

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	4
TOTALS		4

Examination Category B-P All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

Examination Category B-Q Steam Generator Tubing²

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	5
F1.040	Class 1 Supports Other Than Piping Reference Section 4.0 of this report	1
F1.050	Class 1 Snubbers	26
TOTALS		32

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

2.2 Class 2 Inspections

Examination Category C-A Pressure Retaining Welds in Pressure Vessel

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

Examination Category C-B Pressure Retaining Nozzle Welds in Vessels

ltem 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	2.19 45
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

ltem Number	Description	Total Examined During Outage
	Pressure Vessels	de la companya de la La companya de la co
C03.010	Integrally Welded Attachments	4
V. 7:73344	Piping	
C03.020	Integrally Welded Attachments	7
	Pumps	
C03.030	Integrally Welded Attachments	0
	Valves	
C03.040	Integrally Welded Attachments	NA
TOTALS		11

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
and the second	Pumps	
C04.030	Bolts and Studs	1
	Valves	
C04.040	Bolts and Studs	1
TOTALS		2

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	22
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		24

 $^{^3}$ 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	6
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		7

 $^{^3}$ 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

ltem 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	18
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	49
TOTALS		67

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)	13
G05.001	Pressurizer Spray Piping Thermal Transient Inspection	N/A
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"	7
G10.001	Class 1 RTE Mounting Bosses	2
G11.001	Reactor Coolant Pumps 3A2 and 3B1 Alternate Examinations	0
G12.001	HPI System Upgrade Piping Welds With A Nominal Wall Thickness $\leq 1/5$ " on Piping with a Nominal Pipe Size ≥ 2 " and Nominal Pipe Size ≤ 4 ".	3

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	11 Welds	4 Welds	36%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	30 Inspections	17 Inspections	57%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	REFERENCE SECTION 11.0 OF THIS REPORT			EPORT
B-F	Pressure Retaining Dissimilar Metal Welds	32 Welds	16 Welds	50%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	130 Items	50.6 Items	39%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	22 Items	10 Items	45%	No
B-H	Integral Attachment for Vessels	N/A	N/A	N/A	N/A
B-J	Pressure Retaining Welds in Piping	127 Welds	61.5 Welds	48%	No

⁴Deferral 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	⁴ 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 Weld	100%	Yes
B-L-2	Pump Casings	1 Casing	1 Casing	100%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	N/A	N/A	N/A	N/A
B-M-2	Valve Body > 4 in. Nominal Pipe Size	3 Valves	3 Valves	100%	Yes
B-N-1	Interior of Reactor Vessel	3 Inspections	1 Inspection	33%	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 Housing	67%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	N/A	N/A	N/A	N/A
F-A F1.10 & F1.040 items.	Class 1 Component Supports (Except Snubbers)	30 Supports	14 Supports	47%	No
F-A F1.050 items	Class 1 Component Supports, Snubbers	26 Snubbers	26 Snubbers	100%	No

⁴ 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	⁴ Deferral Allowed
C-A	Pressure Retaining Welds in Pressure Vessels	8 Welds	3 Welds	38%	No
С-В	Pressure Retaining Nozzle Welds in Vessels	4 Welds	2 Welds	50%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	66 Attachments	33 Attachments	50%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	2 Item	2Items	100%	No
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	148 Welds	66 Welds	45%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	53 Welds	23 Welds	43%	No
C-G	Pressure Retaining Welds in Pumps and Valves	1	1	100%	No
С-Н	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
F-A F1.020 & F1.040 items.	Class 2 Component Supports (Except Snubbers)	113 Supports	54 Supports	48%	No
F-A F1.050 items	Class 2 Component Supports, Snubbers	49 Snubbers	49 Snubbers	100%	No

 $^{^{\}rm 4}$ 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)	100% of EOC 17 Requirements
Pressurizer Spray Piping Thermal Transient Inspection (Item No. Series G05)	Not Scheduled
Auxiliary Feedwater Header Preliminary Safety Concern (PSC 21-82) Water Hammer Examinations (Item No. Series G06)	Not Scheduled
Augmented Examination of Longitudinal Piping Welds With A Nominal Wall Thickness Less Than 3/8" and Greater Than Nominal Pipe Size 4" (Item No. Series G07)	No longer applicable. Code Case N-524 is being used for the examination of all longitudinal piping welds.
Pressurizer Sensing/Sampling Nozzle Safe Ends (Item No. Series G08)	Not Scheduled
Class 2 Piping Welds Nominal Pipe Size Greater Than 4" With A Nominal Wall Thickness Less Than ³ / ₈ " (Item No. Series G09)	100% of EOC 17 Requirements
Class 1 RTE Mounting Bosses (Item No. Series G10)	100% of EOC 17 Requirements
HPI System Upgrade (Item No. Series G12)	100% of EOC 17 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 Outage 17 at Oconee Nuclear Station Unit 2.

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

Item Number = ASME Section XI Tables IWB-2500-1

(Class 1), IWC-2500-1 (Class 2), IWF-2500-1

(Class 1 and Class 2), Augmented

Requirements

ID Number = Unique Identification Number

Iso / Dwg. Numbers = Location and/or Detail Drawings

Proc = Examination Procedures

Insp Req. = Examination Technique - Magnetic Particle,

Dye Penetrant, etc.

Mat / Sch. = General Description of Material

Diam. / Thick = Diameter/Thickness

Cal Blocks = Calibration Block Number

Comments = General and/or Detail Description

CATEGORY B-B, Pressure Retaining Welds in

Vessels Other Than Reactor Vessels

Steam Generators (Primary Side)

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

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Inservice Inspection Plan for Interval 3 Outage 3
,

							900		
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CA	AL BLOCKS	COMMENTS	
**** Tubesheet-	to-Head Weld ***	*							
	SGA-WG58-1 Imferential	50 ISI-OCN2-003 OM-1201-450	NDE-970 NDE-640	UT Head to Tubeshe	CS et	119.000 8.000	40393	Steam Generator 2A Up Tubesheet Pc. 51. Schedule this weld durir interval for surveillance surveillance). Ref. PIP 2	ng the 1st period of the 4th purposes (third & final
	SGA-WG58-2 Imferential	50 ISI-OCN2-003 OM-1201-450	NDE-970 NDE-640	UT Head to	CS	119.000 8.000	40393	Steam Generator 2A Lor Tubesheet Pc. 50. Added to EOC 15 per IV	
Total B02.040 Ite				Tubeshe	et				

Total BU2.040 Items:

2

Total B02 Items:

<u>CATEGORY B-D, Full Penetration Welds of</u> <u>Nozzles in Vessels</u>

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Pressurizer Oconee 2

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					•				
ITEM NUMB	ER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL	BLOCKS	COMMENTS
**** Nozzie	e-to-Vessel Welds ****								
B03.110.002	2-PZR-WP34	50	ISI-OCN2-002	NDE-620	UT	CS	7.750	40394	Pressurizer Spray Nozzle Pc. 09 to Upper Head Pc.
	Circumferential		OM-1201-456	NDE-640			4.750	50236	05.
Class A	Stress weld		B&W149769E		Nozzle 1	to			Calibration block 50236 is being added as a result of
					Upper H	ead			a revision 8 to examination procedure NDE-620.
B03.110.003	2-PZR-WP33-3	50	ISI-OCN2-002	NDE-620	UT	CS	6.875	40394	Pressurizer Relief Nozzle Pc.31 to Upper Head Pc.
	Circumferential		OM-1201-456	NDE-640			4.750	50236	05 Between W&Z Axis.
Class A			B&W149770E		Nozzle 1	to			Calibration block 50236 is being added as a result of
					Upper H	ead			a revision 8 to examination procedure NDE-620.
B03.110.004	2-PZR-WP33-2	50	ISI-OCN2-002	NDE-620	UT	CS	6.875	40394	Pressurizer Relief Nozzle Pc.31 to Head Pc. 05 on
	Circumferential		OM-1201-456	NDE-640			4.750	50236	Y- Axis.
Class A			B&W149770E		Nozzle 1	to			Calibration block 50236 is being added as a result of
					Upper H	ead			a revision 8 to examination procedure NDE-620.
B03.110.005	2-PZR-WP33-1	50	ISI-OCN2-002	NDE-620	UT	CS	6.875	40394	Pressurizer Relief Nozzle Pc.31 to Head Pc. 05
	Circumferential		OM-1201-456	NDE-640			4.750	50236	Between W&X Axis.
Class A			B&W149770E		Nozzie 1 Upper H				Calibration block 50236 is being added as a result of a revision 8 to examination procedure NDE-620.

Total B03.110 Items:

-

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

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

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<u>Pressurizer</u>				Ocone	e 2	
			Inservice I	nspection Pl	an for Inte	rval 3 Outage 3
ITEM NI IMPED	ID NII IMPED	EVE ISO/DWO MUMPEDO	nnoc	INION DEO	MATIONI	DIA CTUIC ON DIC

ITEM NUMBE	R ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CA	L BLOCKS	COMMENTS
**** Nozzle	Inside Radius Secti	on ***	*						
B03.120.002	2-PZR-WP34	50	ISI-OCN2-002	NDE-680	UT	CS	7.750	40394	Pressurizer Spray Nozzle Pc. 09 (Inside Radius
			B&W149768E				2.125		Section) .
Class A					Nozzle	to			
					Upper H	ead			
B03.120.003	2-PZR-WP33-3	50	ISI-OCN2-002	NDE-680	UT	CS	6.875	40394	Pressurizer Relief Nozzle Pc. 31 Between W & Z
			B&W149770E				2.310		Axis. (Inside Radius Section).
Class A					Nozzle	to			
					Upper H	ead			
B03.120.004	2-PZR-WP33-2	50	ISI-OCN2-002	NDE-680	UT	CS	6.875	40394	Pressurizer Relief Nozzle Pc. 31. Y- Axis (Inside
			B&W149770E				2.310		Radius Section).
Class A			•		Nozzle	to			•
					Upper H	ead			
B03.120.005	2-PZR-WP33-1	50	ISI-OCN2-002	NDE-680	UT	CS	6.875	40394	Pressurizer Relief Nozzle Pc. 31 W & X Axis (Inside
			B&W149770E				2.310		Radius Section).
Class A					Nozzle	to			·
					Upper H	ead			

Total B03.120 Items:

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

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

Steam Generators (Primary Side)

Oconee 2

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		Inservice I	nspection Pl	an for interval 3 Outage 3	
ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH DIA/THK CAL BLOCKS	COMMENTS
ssel Welds ****					

					•			9	
ITEM NUMB	ER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	I DIA/THK CA	AL BLOCKS	COMMENTS
**** Nozzie	e-to-Vessel Welds ****								
B03.130.001	2-SGA-WG50-2	50	ISI-OCN2-003	NDE-970	UT	CS	38.380	40393	Steam Generator 2A Outlet Nozzle Pc. 65 to Lower
	Circumferential		OM-1201-450	NDE-640			8.500		Head Pc. 7 Between W-Z Axis.
Class A			B&W146467E		Nozzle	to			
					Head				
B03.130.002	2-SGA-WG50-1	50	ISI-OCN2-003	NDE-970	UT	CS	38.380	40393	Steam Generator 2A Outlet Nozzle Pc. 65 to Lower
	Circumferential		OM-1201-450	NDE-640			8.500		Head Pc. 7 Between Y-Z Axis.
Class A			B&W146467E		Nozzle	to			
					Head				
B03.130.006	2-SGB-WG25	50	ISI-OCN2-004	NDE-970	UT	CS	48.630	40393	Steam Generator 2B Inlet Nozzle Pc. 70 to Upper
	Circumferential		OM-1201-450	NDE-640			8.000		Head Pc. 8.
Class A			B&W103213D		Nozzle	to			
					Head				
Total DOO	100 14								

Total B03.130 Items:

<u>CATEGORY B-D, Full Penetration Welds of</u> <u>Nozzles in Vessels</u>

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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Oconee 2

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Steam Generators (Primary Side)

Inservice Inspection Plan for Interval 3 Outage 3

ITEM NUMBE	R ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CA	L BLOCKS	COMMENTS
**** Nozzle I	nside Radius Section	on ***	*						
B03.140.001	2-SGA-WG50-2	50	ISI-OCN2-003	NDE-680	UT	CS	38.380	40393	Steam Generator 2A Outlet Nozzle Pc.65 Between
			OM-1201-450				8.500		W-Z Axis. (Inside Radius Section)
Class A			B&W103214D		Nozzle	to			
					Lower H	ead			
B03.140.002	2-SGA-WG50-1	50	ISI-OCN2-003	NDE-680	UT	CS	38.380	40393	Steam Generator 2A Outlet Nozzle Pc.65 Between
			OM-1201-450				8.500		Y-Z Axis. (Inside Radius Section)
Class A	•		B&W103214D		Nozzle	to			
					Lower H	ead			
B03.140.006	2-SGB-WG25	50	ISI-OCN2-004	NDE-680	UT	CS	48.630	40393	Steam Generator 2B Inlet Nozzle Pc.70. (Inside
			OM-1201-450				8.000		Radius Section)
Class A			B&W103213D		Nozzle	to			
Total B02 44	IO Itamar 3	-							

Total B03.140 Items:

3

Total B03 Items:

Piping

CATEGORY B-F, Pressure Retaining Dissimilar Metal Welds

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

Oconee 2

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i iping	Tiping									rageo	
	Inservice Inspection Plan for Interval 3 Outage 3										
ITEM NUMBI	ER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CA	L BLOCKS	COMMENTS		
**** NPS 4	or Larger; Dissimilar	Meta	Il Butt Welds ****								
B05.130.008	2-PIA1-7	50	ISI-OCN2-007	NDE-610	UT	SS-CS	33.500	40350	UT from the pipe side.		
	Circumferential		OM-1201-966				3.000		• •		
Class A					Pipe Pc						
					Safe-En	ıd (Pc. 55)					
B05.130.008A		50	ISI-OCN2-007	NDE-610	UT	SS-CS	33.500	40397	UT from the safe-end side.		
	Circumferential		OM-1201-966				3.000				
Class A					Pipe Pc						
						nd (Pc. 55)	**************************************				
B05.130.008E		50	ISI-OCN2-007	NDE-35	PT	SS-CS	33.500				
Class A	Circumferential		OM-1201-966		Dina Da	EG to	3.000				
Class A					Pipe Pc Safe-En	. 50 to id (Pc. 55)					
B05.130.010	2-PIB1-7	50	ISI-OCN2-009	NDE-610			00.500	10050			
	Circumferential	50	OM-1201-966	NDE-010	UT	SS-CS	33.500 2.330	40350	UT from pipe side		
Class A	Olicumerential		OW-1201-900		Pipe Pc	. 56 to	2.550				
0.00071					-	id (Pc. 55)					
B05.130.010A	A 2-PIB1-7	50	ISI-OCN2-009	NDE-610	UT	SS-CS	33.500	40397	UT from the safe-end side		
	Circumferential		OM-1201-966		•		2.330	10001	or nom the date one state		
Class A					Pipe Pc	. 56 to					
	Dissimilar				Safe-En	nd (Pc. 55)					
B05.130.010E	3 2-PIB1-7	50	ISI-OCN2-009	NDE-35	PT	SS-CS	33.500				
	Circumferential		OM-1201-966				2.330				
Class A					Pipe Pc						
	Dissimilar				Safe-En	nd (Pc. 55)					
B05.130.011	2-PIB2-7	50	ISI-OCN2-010	NDE-610	UT	SS-CS	33.500	40350	UT from pipe side		
	Circumferential		OM-1201-966				2.330				
Class A					Pipe Pc						
	Dissimilar				***************************************	nd (Pc. 55)					
B05.130.011A		50	ISI-OCN2-010	NDE-610	UT	SS-CS	33.500	40397	UT from the safe-end side.		
Olara A	Circumferential		OM-1201-966		D: D-	EC 4-	2.330				
Class A	Dissimilar				Pipe Pc	. 56 to id (Pc. 55)					
	Dissimilar				Sale-Ell	iu (FC, 55)					

Piping

CATEGORY B-F, Pressure Retaining Dissimilar Metal Welds

DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES

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Inservice Inspection Plan for Interval 3 Outage 3 ITEM NUMBER **ID NUMBER** INSP REQ MAT/SCH DIA/THK CAL BLOCKS SYS ISO/DWG NUMBERS **PROC** COMMENTS B05.130.011B 2-PIB2-7 50 ISI-OCN2-010 NDE-35 PT SS-CS 33.500 Circumferential . OM-1201-966 2.330 Pipe Pc. 56 to Class A Safe-End (Pc. 55)

Total B05.130 Items:

CATEGORY B-F, Pressure Retaining Dissimilar Metal Welds

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

Oconee 2

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<u>Piping</u>

Inservice Inspection Plan for Interval 3 Outage 3

ITEM NUMB	BER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Less 1	Րhan NPS 4; Dissimila	r Met	al Butt Welds ****					
B05.140.001	2-50-7-14	50	2-50-7 (1)	NDE-35	PT	SS-Inconel	1.500	Pump 2A2 Suction Nozzle to elbow weld.
	Circumferential		OFD-100A-2.1				0.281	•
Class A					Nozzle	to		
	Dissimilar				Elbow			
B05.140.002	2-50-7-29	50	2-50-7 (1)	NDE-35	PT	SS-Inconel	1.500	Pump 2A1 Suction Nozzle to elbow weld.
	Circumferential		OFD-100A-2.1				0.281	
Class A					Nozzle	to		
	Dissimilar				Elbow			
B05.140.003	2-50-7-8	50	2-50-7 (2)	NDE-35	PT	SS-Inconel	1.500	Pump 2B2 Suction Nozzle to elbow weld.
	Circumferential		OFD-100A-2.1				0.281	•
Class A					Elbow t	to		
	Dissimilar				Nozzle			
B05.140.007	2-PDB2-11	50	ISI-OCN2-014	NDE-35	PT	SS-CS	3.500	
	Circumferential		B&W146829E				0.750	
Class A					Nozzle I	Pc. 46 to		
	Dissimilar				Safe-En	nd Pc. 47		
Total B05	140 Items: 4							

Total B05.140 Items:

Total B05 Items:

Reactor Vessel

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

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

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3 BER ID NUMBER SYS ISO/DWG NUMBERS PROC INSPIRED MAT/SCH DIA/THK CAL BLOCKS COMMENTS									
ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS		
lead Nuts ****					,				
2-RPV-26-204-22	50	OM-1201-4	NDE-25	MT	CS	9.250	Reactor Vessel Closure Nut Pc. 26	5.	
		B&W152009E				1.300			
2-RPV-26-204-23	50	OM-1201-4 B&W/152009E	NDE-25	MT	CS	9.250	Reactor Vessel Closure Nut Pc. 26).	
		DUW102003L				1.500			
2-RPV-26-204-24	50	OM-1201-4	NDE-25	MT	CS	9.250	Reactor Vessel Closure Nut Pc. 26).	
		B&W152009E				1.300			
2-RPV-26-204-25	50	OM-1201-4	NDE-25	MT	cs	9.250	Reactor Vessel Closure Nut Pc. 26	3.	
		B&W152009E				1.300			
2-RPV-26-204-26	50	OM-1201-4	NDE-25	MT	CS	9.250	Reactor Vessel Closure Nut Pc. 26).	
		B&W152009E				1.300			
	ead Nuts **** 2-RPV-26-204-22 2-RPV-26-204-23 2-RPV-26-204-24 2-RPV-26-204-25	ead Nuts **** 2-RPV-26-204-22 50 2-RPV-26-204-23 50 2-RPV-26-204-24 50 2-RPV-26-204-25 50	ead Nuts **** 2-RPV-26-204-22 50 OM-1201-4	ID NUMBER SYS ISO/DWG NUMBERS PROC	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SC	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SCH DIA/THK CAL BLOCKS	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SCH DIA/THK CAL BLOCKS COMMENTS	

Total B06.010 Items:

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

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

Oconee 2

Reactor Vessel

Inservice Inspection Plan for Interval 3 Outage 3

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				inservice i	nspection P	'lan tor li	nterval 3 Outage 3		02/02/2000
ITEM NUMBER	R ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S	CH DIA/THK CAL BLO	ocks (COMMENTS
**** Closure	Studs, when remov	/ed **	**						
B06.030.022	2-RPV-25-204-22	50	OM-1201-4 B&W152009E	NDE-944	UT	CS	6.500 404 0.000		eactor Vessel Closure Studs - Removed; Pc. 25. tud Length = 63.250.
Class A									•
B06.030.022A	2-RPV-25-204-22	50	OM-1201-4	NDE-25	MT	CS	6.500		eactor Vessel Closure Studs - Removed; Pc. 25.
Class A			B&W152009E				0.000	51	tud Length = 63.250.
B06.030.023	2-RPV-25-204-23	50	···· ·-• ·	NDE-944	UT	CS	6.500 404		eactor Vessel Closure Studs - Removed; Pc. 25.
Class A			B&W152009E				0.000	St	tud Length = 63.250.
B06.030.023A	2-RPV-25-204-23	50		NDE-25	MT	CS	6.500		eactor Vessel Closure Studs - Removed; Pc. 25.
Class A			B&W152009E				0.000	St	tud Length = 63.250.
B06.030.024	2-RPV-25-204-24	50	OM-1201-4	NDE-944	UT	CS	6.500 404		eactor Vessel Closure Studs - Removed; Pc. 25.
Class A			B&W152009E	÷			0.000	St	tud Length = 63.250.
B06.030.024A	2-RPV-25-204-24	50	OM-1201-4	NDE-25	MT	CS	6.500	R	eactor Vessel Closure Studs - Removed; Pc. 25.
Class A			B&W152009E				0.000		tud Length = 63.250.
B06.030.025	2-RPV-25-204-25	50	OM-1201-4	NDE-944	UT	CS	6.500 404	120 P	eactor Vessel Closure Studs - Removed; Pc. 25.
Class A			B&W152009E	1102 044	O1	00	0.000		tud Length = 63.250.
Ciass A									
B06.030.025A	2-RPV-25-204-25	50	OM-1201-4 B&W152009E	NDE-25	MT	CS	6.500 0.000		eactor Vessel Closure Studs - Removed; Pc. 25. and Length = 63.250.
Class A							0.000	0.	

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

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

Oconee 2

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		Inservice Inspection Plan for Interval 3 Outage 3									
ITEM NUMBER	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLO	CKS COMMENTS				
B06.030.026	2-RPV-25-204-26	50 OM-1201-4 B&W152009E	NDE-944	UT	CS	6.500 4042 0.000	Reactor Vessel Closure Studs - Removed; Pc. 25. Stud Length = 63.250.				
Class A							•				
B06.030.026A	2-RPV-25-204-26	50 OM-1201-4 B&W152009E	NDE-25	MT	CS	6.500 0.000	Reactor Vessel Closure Studs - Removed; Pc. 25. Stud Length = 63.250.				
Class A											

Total B06.030 Items:

Reactor Vessel

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

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

Reac	tor V	esse	ı

Oconee 2

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	Inservice Inspection Plan for Interval 3 Outage 3								
ITEM NUMBER	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS		
**** Closure	Washers, Bushings	***							
B06.050.001D	2-RPV-WASH-BUSH	50	QAL-13	VT-1	CS	9.750	Reactor Vessel Closure Washers and Bushings.		
		B&W152009E				0.000	Stud Holes 22 Thru 26.		
Class A									

Total B06.050 Items:

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

17

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

<u>Pumps</u>

Total B06 Items:

Oconee 2

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ITEM NUMBER	ID NUMBER S	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH DIA/	THK CAL BLOCKS	COMMENTS	
**** Flange Sur	rface, when connect	tion dissassembled ****						
306.190.003 2	2-RCP-2B1-FLANGE 5	0	QAL-13	VT-1	SS	0.000	Reactor Coolant Pump 2B1	main flange. Including
		OM-1201D-0005			(0.000	1" annular surface of flange	
Class A		OM-1201-1217					(Inspect only if disassemble	d).

CATEGORY B-G-2, Pressure Retaining

Bolting, 2" And Less In Diameter
Pressurizer

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

Oconee 2

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	OL/OL/2000							
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S	CH DIA/THK CAL BLOCKS	COMMENTS	
**** Bolts, S	Studs, and Nuts ****							
B07.020.002	2-PZR-CHB-STUDS	50	QAL-13	VT-1	CS	2.000	Pressurizer Center Heater	Bundle Studs Pc. 75
		B&W149775E				0.000	(Total 16 Studs). Length =	
Class A							· -	
Total B07.0	20 Items: 1							

<u>Piping</u>

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

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

Oconee 2

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Inservice In	spection Plan	for Interval	3	Outage 3
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				-			
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Bolts, S	tuds, and Nuts ****						·
B07.050.003	2-PZR-RC67-BOLT	50	QAL-13	VT-1	CS	1.125	Pressurizer Relief Valve RC-67 Nozzle Flange
		OM-1201-1526				0.000	Bolting (Nozzle between W & X Axis) Total 8
Class A		B&W149762E					Bolts and Nuts.
B07.050.004	2-PZR-RC68-BOLT	50	QAL-13	VT-1	CS	1.125	Pressurizer Relief Valve RC-68 Nozzle Flange
		OM-1201-1526				0.000	Bolting (Nozzle 15 Degrees off Y - Axis) Total 8
Class A		B&W149762E					Bolts and Nuts.

Total B07.050 Items:

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

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

CRD Housings

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3									
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS		
**** Bolts, S	Studs, and Nuts ****								
B07.080.001	2-RPV-CRD-BOLTS	50 DPS 706599-1056	QAL-13	VT-1	CS	1.250	CRD Housing Bolts (To	tal 8 Bolts) CRD#	
		OM-201-2248				0.000	1,2,5,44,47,7,20, 37, 40	, 46, & 60 Inspected to	
Class A		B&W152006E					date. (Inspect only if dis		
							Request for Relief ONS	6-004 and ONS-005.	
B07.080.002	2-RPV-CRD-RINGS	50 DPS 706599-1056	QAL-13	VT-1	CS	11.500	CRD Housing Rings; 1	Pair per housing Pc.120;	
		OM-201-2248				1.250		37, 40, 46, & 60)Inspected	
Class A		B&W152006E					to date.(Inspect only if	lisassembled).	

Total B07.080 Items:

2

Total B07 Items:

Class A

Term end

<u>CATEGORY B-J, Pressure Retaining Welds In</u> Piping

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

NPS 4 or Larger

Oconee 2

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			02/02/200				
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Circum	ferential Welds ****						
B09.011.001	2-53A-10-3 Circumferential	53A 2-53A-10 OFD-102A-2.1	NDE-600	UT	SS	12.000 1.125	Reference Request for Relief 95-GO-03 for
Class A	Circumerentiai	OPD-102A-2.1		Valve 2	D ₂ 1 to	1.125	calibration block.
Olass A				Pipe	_1-1 (0		
B09.011.001A	2-53A-10-3	53A 2-53A-10	NDE-35	PT	SS	12.000	
. (Circumferential	OFD-102A-2.1				1.125	
Class A				Valve 2	LP-1 to		
				Pipe			
B09.011.007	2-53A-8-43	53A 2-53A-8(2)	NDE-600	UT	SS	14.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-102A-2.3				1.250	calibration block.
Class A				Pipe to			
				Elbow			
B09.011.007A		53A 2-53A-8(2)	NDE-35	PT	SS	14.000	
	Circumferential	OFD-102A-2.3		.		1.250	
Class A				Pipe to Elbow			
						1-04	
B09.011.015	2-53A-9-16	53A 2-53A-9	NDE-600	UT	SS	10.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-102A-2.3		Di 4.		1.000	calibration block.
Class A				Pipe to Valve 2I			
B09.011.015A	2-53A-9-16	53A 2-53A-9	NDE-35	PT	SS	10.000	
(Circumferential	OFD-102A-2.3				1.000	
Class A				Pipe to			
	PARTIE MARKET		····	Valve 2I			
B09.011.023	2-PIA1-1	50 ISI-OCN2-007	NDE-600	UT	CS	33.500	TERMINAL END
	Circumferential	OM-1201-966				2.330	Reference Request for Relief 95-GO-03 for
Class A	Term end			Nozzle S Pipe Pc	Steam Gen. . 67	2A to	calibration block.
B09.011.023A	2-PIA1-1	50 ISI-OCN2-007	NDE-25	MT	CS	33.500	TERMINAL END
(Circumferential	OM-1201-966				2.330	
	_					and the second s	

Nozzle Steam Gen. 2A to

Pipe Pc. 67

<u>CATEGORY B-J, Pressure Retaining Welds In Piping</u>

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

NPS 4 or Larger

Oconee 2

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NF3 4 0	Laiyei				00011	CC E		Page 10
				Inservice l	02/02/2000			
ITEM NUMB	ER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
B09.011.025	2-PIA2-1	50	ISI-OCN2-008	NDE-600	UT	CS	33.500	TERMINAL END
	Circumferential		OM-1201-966				2.330	Reference Request for Relief 95-GO-03 for
Class A	Term end					Steam Gen. 2	A to	calibration block.
					Pipe Pc	. 67		
B09.011.025/	A 2-PIA2-1	50	ISI-OCN2-008	NDE-25	MT	cs	33.500	TERMINAL END
	Circumferential		OM-1201-966				2.330	·
Class A	Term end				_	Steam Gen. 2	A to	
					Pipe Pc	. 67		
B09.011.027	2-PIB1-1	50	ISI-OCN2-009	NDE-600	UT	CS	33.500	TERMINAL END
	Circumferential		OM-1201-966				2.330	Reference Request for Relief 95-GO-03 for
Class A	Term end					Steam Gen. 2	B to	calibration block.
					Pipe Pc	. 67		
B09.011.027	A 2-PIB1-1	50	ISI-OCN2-009	NDE-25	MT	CS	33.500	TERMINAL END
	Circumferential		OM-1201-966				2.330	
Class A	Term end					Steam Gen. 2	B to	
					Pipe Pc			
B09.011.031	2-PIB2-8	50	ISI-OCN2-010	NDE-600	UT	SS	33.500	Reference Request for Relief 95-GO-03 for
	Circumferential		OM-1201-966				2.330	calibration block.
Class A						2 Casing to		
					<u> </u>	fe-End Pc. 55		
B09.011.031/		50	ISI-OCN2-010	NDE-35	PT	SS	33.500	
.	Circumferential		OM-1201-966		505.00		2.330	
Class A						2 Casing to		
						fe-End Pc. 55		
B09.011.045	2-PSP-3	50	ISI-OCN2-016	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	Circumferential		OFD-100A-2.2		-		0.438	calibration block.
Class A	Stress weld				Elbow t Reduce			
D00 044 045			101 0010					
B09.011.045/		50	ISI-OCN2-016	NDE-35	PT	SS	4.000	
O1# A	Circumferential		OFD-100A-2.2		Cilcano 4	٠.	0.438	
Class A	Stress weld				Elbow t Reduce	-		
D00 044 042	A DIDO C	F A	101.00010.010					
B09.011.046	2-PIB2-3	50	ISI-OCN2-010	NDE-600	UT	CS	33.500	Reference Request for Relief 95-GO-03 for
Class A	Circumferential		OM-1201-966		Elbow P)	2.330	calibration block.
Class A					Pipe Pc			
					ripe PC	. 03		

<u>CATEGORY B-J, Pressure Retaining Welds In Piping</u>

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

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NPS 4 or Larger

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3									
ITEM NUMBER	ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ		I DIA/THK CAL BLOCKS	COMMENTS	
B09.011.046A	2-PIB2-3	50	ISI-OCN2-010	NDE-25	MT	CS	33.500		
Cir	cumferential		OM-1201-966				2.330		
Class A					Elbow P	c.45 to			
					Pipe Pc.	63			
B09.011.047	2-PHA-10	50	ISI-OCN2-005	NDE-600	UT	CS	42.750	Reference Request for Relief 95-GO-03 for	
Cir	cumferential		OM-1201-966				2.856	calibration block.	
Class A					Elbow P	c. 1A to			
					Elbow P	c.1B			
B09.011.047A	2-PHA-10	50	ISI-OCN2-005	NDE-25	MT	CS	42.750		
Cir	cumferential		OM-1201-966				2.856		
Class A					Elbow P	c. 1A to			
					Elbow P	c.1B			

Total B09.011 Items:

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

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

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Less Than NPS 4	Oconee 2
	Inservice Inspection Plan for Interval 3 Outage 3

			inservice	inspection F	lan tor	Interval 3 Outage 3		02/02/2000
ITEM NUMB	BER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S	SCH DIA/THK CAL BLOCKS	COMMENTS	
**** Circur	nferential Welds ****							
B09.021.011	2-51A-147-26	51A 2-51A-147	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-2.1				0.375		
Class A				Pipe to)			
				Pipe				
B09.021.023	2-51A-30-15	51A 2-51A-30	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-2.4				0.375		
Class A				Pipe to	,			
				Pipe				
B09.021.029	2-51A-30-40	51A 2-51A-30	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-2.4				0.375		
Class A				Elbow	to			
				Pipe		•		
B09.021.031	2HP-216-8	51A 2HP-216	NDE-35	PT	SS	2.500	This weld was listed or	eviously as 2-51A-30-52 until
	Circumferential	OFD-101A-2.4				0.375	iso 2-51A-30 was redra	awn.
Class A				Elbow	to			
				Pipe				
B09.021.033	2-51A-35-28A	51A 2-51A-35 (2)	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-2.1				0.375		
Class A				Pipe to				
				Elbow				•
B09.021.034	2-51A-35-33	51A 2-51A-35 (2)	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-2.1				0.375		
Class A				Pipe to				
				Elbow				
B09.021.049	2-50-7-30	50 2-50-7 (1)	NDE-35	PT	SS	1.500		
	Circumferential	OFD-100A-2.1				0.281		
Class A				Elbow 1	to			
				Pipe				
B09.021.051	2-50-7-9	50 2-50-7 (2)	NDE-35	PT	SS	1.500		
	Circumferential	OFD-100A-2.1		. ,		0.281		
Class A				Pipe to		* ···· * ·		
				Elbow				

<u>CATEGORY B-J, Pressure Retaining Welds In Piping</u>

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DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES

Inservice Inspection Database Management System

Less Than NPS 4

Total B09.021 Items:

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3								02/02/2000
ITEM NUMB	ER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS
B09.021.053	2-PSP-25	50	ISI-OCN2-016	NDE-35	PT	SS	1.500	
	Circumferential		OFD-100A-2.2				0.281	
Class A	Stress weld				Tee to			
					Reduce	r		
B09.021.059	2-PSP-14	50	ISI-OCN2-016	NDE-35	PT	SS	2.500	
	Circumferential		OFD-100A-2.2				0.375	
Class A	Stress weld				Elbow 1	to		
					Tee			
B09.021.062	2-PSP-12	50	ISI-OCN2-016	NDE-35	PT	SS	2.500	3-11
	Circumferential		OFD-100A-2.2				0.375	
Class A					Valve 2	RC-001 to		
					Pipe			
B09.021.063	2-PSP-18	50	ISI-OCN2-016	NDE-35	PT	SS	2.500	
	Circumferential		OFD-100A-2.2				0.375	
Class A					Pipe to			
					Pipe			
B09.021.064	2-PSP-21	50	ISI-OCN2-016	NDE-35	PT	SS	2.500	
	Circumferential		OFD-100A-2.2				0.375	
Class A					Pipe to			
					Pipe			
B09.021.065	2-PSP-22	50	ISI-OCN2-016	NDE-35	PT	SS	2.500	Pump 2B1 Discharge piping nozzle to PZR Spray
	Circumferential		OFD-100A-2.2				0.375	line weld.
Class A					Pipe to			
					Nozzle			

CATEGORY B-J, Pressure Retaining Welds In Piping

DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES

Inservice Inspection Database Management System

Socket Welds

Oconee 2

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Inservice Inspection Plan						erval 3 Outage 3	02/02/2000	
ITEM NUMB	ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS	
B09.040.004	2-50-129-3B	50 2-50-129	NDE-35	DT.		4.500		
505.040.004	Socket	OFD-100A-2.2	NDE-35	PT	SS	1.500		
01	Socker	OFD-100A-2.2				0.281		
Class A				Elbow t	0			
				Pipe				
B09.040.006	2-51A-145-26	51A 2-51A-145	NDE-35	PT	SS	2.000		· · · · · · · · · · · · · · · · · · ·
	Socket	OFD-101A-2.1				0.344		
Class A				Pipe to				
				Valve 2l	HP4			

Total B09.040 Items:

Total B09 Items:

Valves

CATEGORY B-M-2, Valve Bodies

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

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3									
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS		
**** Valve B	ody, Exceeding NPS	§ 4 ****							
B12.050.005	2-53A-LP47	53A OM-245-001	QAL-14	VT-3	SS	14.250 0.000		Body- valve LP-47. (Inspect only if pled for maintenance purposes,	
Class A		OFD-102A-2.2		Valve (Ir	nternal Surfa	ces) to	valve repair, etc.) Valve LP-47 was not disassembled during outage:		
B12.050.006	2-53A-LP48	53A OM-245-001	QAL-14	VT-3	SS	10.937 0.000		Body- valve LP-48. (Inspect only if pled for maintenance purposes,	
Class A		OFD-102A-2.2		Valve (Ir	nternal Surfa	ces) to	valve repair, etc.)	not disassembled during outage 2.	

Total B12.050 Items:

2

Total B12 Items:

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

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

Oconee 2

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Reactor Vessel

Inservice Inspection Plan for Interval 3 Outage 3

					i i ai o o a tago o	
ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
CRD Housing ****						
2-RPV-CRD-52WH9	50	NDE-35	PT	SS-Inconel	4.025	CRDM Housing Body to Adapter MK - 67 to MK- 5
	OM-1201-1529				0.650	,
	OM-1201-1530		Housing	Body to		
			Adapter	•		
2-RPV-CRD-52W60	50	NDE-35	PT	SS-CS	5.000	CRDM Base to Motor Tube - CRDM # 52.
	DPS 706599-1056				0.500	
	OM-1201-1530		CRDM I	Base to		
			Motor T	ube		
2-RPV-CRD-52	50	NDE-35	PT	SS-CS	4.300	CRDM Motor Tube to Extension - CRDM # 52.
	DPS 706599-1056				0.400	
	OM-1201-1530)	
2-RPV-CRD-52\M61	50	NDE 35			4.100	Positrhosal CRDM Fidencian to Com. CRDM # 50
2-111 4-0110-024401		NDL-33	гі	33		Peripheral CRDM Extension to Cap - CRDM # 52.
			Evtensi	on to	0.300	
	OW-1201-1550			on to		
14						
	CRD Housing **** 2-RPV-CRD-52WH9 2-RPV-CRD-52W60	2-RPV-CRD-52WH9 50 OM-1201-1529 OM-1201-1530 2-RPV-CRD-52W60 50 DPS 706599-1056 OM-1201-1530 2-RPV-CRD-52 50 DPS 706599-1056 OM-1201-1530 2-RPV-CRD-52W61 50 DPS 706599-1056 OM-1201-1530	ID NUMBER SYS ISO/DWG NUMBERS PROC CRD Housing ***** 2-RPV-CRD-52WH9 50 OM-1201-1529 OM-1201-1530 NDE-35 2-RPV-CRD-52W60 50 DPS 706599-1056 OM-1201-1530 NDE-35 2-RPV-CRD-52 50 DPS 706599-1056 OM-1201-1530 NDE-35 2-RPV-CRD-52W61 50 DPS 706599-1056 OM-1201-1530 NDE-35	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SCH	CRD Housing **** 2-RPV-CRD-52WH9 50

Total B14.010 Items:

4

Total B14 Items:

-

CATEGORY C-A, Pressure Retaining Welds In

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

Pressure Vessels
Tubesheet-to-Shell Weld

Total C01 Items:

Oconee 2

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCI	H DIA/THK CA	AL BLOCKS	COMMENTS	
C01.030.003 2-LI	PCB-SH-TUBE		NDE-630	UT	SS-CS	46.000	40385	LP Cooler 2B S/S	Shell to Tubesheet Flange
Circum	nferential	OM-201-0286				0.750			one to rubconcernange
Class B		OFD-102A-2.2		Shell to					
			Tubesh	eet Flange					

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

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

Pressure Vessels

Oconee 2

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	Inservice Inspection Plan for Interval 3 Outage 3									
VG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS					

						ioi rai o oatago o	
ITEM NUMBEI	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCI	H DIA/THK CAL BLOCKS	COMMENTS
**** Integrall	y Welded Attachme	nts ****	-				
C03.010.001	2-SGA-WG84-YZ		NDE-25	MT	CS	0.000	Steam Generator 2A Feedwater Header Support
		OM-1201-1511				1.000	Attachment Pc. 152/153 Y-Z Quadrant nearest to Y
Class B		OM-1201-95		Attachm	ent to		Axis.
				Shell			
C03.010.002 2-	2-SGA-WG84-ZY		NDE-25	MT	CS	0.000	Steam Generator 2A Feedwater Header Support
		OM-1201-1511				1.000	Attachment Pc. 152/153 Y-Z Quadrant nearest to Z
Class B		OM-1201-95 Attachment to			Axis.		
				Sheil			
C03.010.005	2-SGB-WG84-XY		NDE-25	MT	CS	0.000	Steam Generator 2B Feedwater Header Support
		OM-1201-1511			1.000		Attachment Pc. 152/153 X-Y Quadrant nearest to X-
Class B		OM-1201-95		Attachm	ent to		Axis.
				Shell			
C03.010.006	2-SGB-WG84-YX		NDE-25	MT	CS	0.000	Steam Generator 2B Feedwater Header Support
		OM-1201-1511				1.000	Attachment Pc. 152/153 X-Y Quadrant nearest to Y-
Class B		OM-1201-95		Attachment to			Axis.
				Shell			

Total C03.010 Items:

Piping

<u>CATEGORY C-C, Integral Attachments For Vessels, Piping, Pumps, And Valves</u>

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

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3								02/02/2000
ITEM NUMB	ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S	SCH DIA/THK CAL BLOCKS	COMMENTS	
**** Integra	ally Welded Attachme	ents ****						
C03.020.012	2-01A-H7B Constant Support	01A 0-1480A OFD-122A-2.1	NDE-25	MT	CS	26.000 1.000	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAG	E 40
Class B							MAIN STEAM PIPING	
C03.020.023	2-14B-H12	14B 0-1479A	NDE-25	MT	CS	6.000	FILE NO. OSC-1325	
Class B	Rigid Restraint	OFD-124B-2.2				0.750	PROBLEM NO. 2-14-16 VOL. LP SERVICE WATER	60F12
C03.020.034	2-14B-H5F	14B 0-1479A	NDE-25	MT	CS	8.000	FILE NO. OSC-1325	
Class B	Rigid Restraint	OFD-124B-2.2				1.500	PROBLEM NO. 2-14-14 vol.4 LPSWATER	lof12
C03.020.039	2-51A-SR116	51A 1-0-436J	NDE-35	PT	SS	4.000	File Number = OSC-481,Page	e 142.1; Problem
Class B	Rigid Restraint	OFD-101A-2.3				0.750	Number = 51-2	
C03.020.043	2-53B-H1	53B 5-0-1444	NDE-35	PT	SS	12.000	FILE NO. OS-487, PROBLEM	I NO. 2-53-01, SHT3
Class B	Spring Hgr	OFD-102A-2.1				1.000	OF 5. LPI TO DECAY HEAT I 53B.	REMOVAL SYSTEM
C03.020.044	2-53B-H14	53B 6-0-438C	NDE-35	PT	SS	8.000	FILE NO. OS-493, PROBLEM	
Class B	Rigid Restraint	OFD-102A-2.1	·			1.000	OF 4. FROM L. P. PUMPS "2 BORATED WATER STORAG "53A" & "53B".	
C03.020.050	2-53B-R11	53B 0-1439B	NDE-35	PT	SS	10.000	FILE NO. OS-493, PROBLEM	
Class B	Rigid Restraint	OFD-102A-2.2		SWAY S	STRUT to	1.500	OF 4. FROM L. P. PUMPS "2 BORATED WATER STORAG "53A" & "53B".	

Total C03.020 Items:

7

Total C03 Items:

<u>Pumps</u>

<u>CATEGORY C-D, Pressure Retaining Bolting</u> <u>Greater Than 2 in. In Diameter</u>

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

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Oconee 2

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	Inservice Inspection Plan for Interval 3 Outage 3							02/02/200	02/02/2000
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CA	L BLOCKS	COMMENTS	
**** Bolts ar	nd Studs ****								
C04.030.001 Class B	2-HPI-PUMP-2A	51A OM-201-1704 OFD-101A-2.3	NDE-943	UT	SS	2.500 0.000	40422	Case Bolting on HPI Pump 2A. (2.5" in diameter and 12" in length; 20 bolts total) We are required to inspect the Case bolting on or one of the HPI pumps during the 3rd interval. (HI	nly
								Pump 2A, 2B or 2C). We scheduled the inspection of the pumps with the disassembled during the interval. If one is not disassembled then we will have to inspect the bolting in one of the pumps in place.	on ill

Total C04.030 Items:

ITEM NUMBER

CATEGORY C-D, Pressure Retaining Bolting

Greater Than 2 in. In Diameter

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

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<u>Valves</u> Inservice Inspection Plan for Interval 3 Outage 3

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

**** Bolts and Studs ****

C04.040.002 2-01A-SV2-STUD 01A UT CS NDE-945 2.250 40417 Main Steam Stop Valve SV2.

> OM-200-195 0.000

Class B OFD-122B-2.1 Studs to

Total C04.040 Items: 1

Total C04 Items: 2

CATEGORY C-F-1, Pressure Retaining Welds

In Austenitic SS or High Alloy Piping Piping Welds >= 3/8 in Nominal Wall Thickness

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

Oconee 2

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Fibility vvelus >-	<u> 3/0</u>	<u>m. Nominai</u>	vvali	Inickness
for Dinima b NDC				

for Piping	>	NPS	4
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Inservice Inspection Plan for Interval 3 Outage 3

				opootioii i	1411 IOI III	icival o Outage o		··
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS	
**** Circumferer	ntial Weld ****							
	P-150-17 mferential	53A 2LP-150 OFD-102A-2.3	NDE-600	UT	SS	10.000 1.125	Reference Reque calibration block.	st for Relief 95-GO-03 for
Class B				Pipe to Valve 2l			This weld was list iso 2-53A-9 was r	ed previously as 2-53A-9-17 until edrawn.
	.P-150-17 mferential	53A 2LP-150 OFD-102A-2.3	NDE-35	PT	SS	10.000 1.125	This weld was list	ed previously as 2-53A-9-17 until edrawn.
Class B				Pipe to Valve 2l				

Total C05.011 Items:

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

Piping Welds > 1/5 in. Nom Wall For Piping >=

Oconee 2

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NPS 2 And	<= NPS 4		Inservice I	nspection P	lan for in	iterval 3 Outage 3		02/02/2000
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC			CH DIA/THK CAL BLOCKS	COMMENTS	
**** Circumfe	rential Weld ****							
	2-51A-130-14	51A 2-51A-130	NDE-600	UT	SS	4.000	Reference Request fo	or Relief 95-GO-03 for
	cumferential	OFD-101A-2.4				0.531	calibration block.	
Class B				Pipe to				
				Elbow				
C05.021.007A		51A 2-51A-130	NDE-35	PT	SS	4.000		
	cumferential	OFD-101A-2.4				0.531		
Class B				Pipe to				
				Elbow				
C05.021.008	2-51A-130-4A	51A 2-51A-130	NDE-600	UT	SS	4.000	Reference Request fo	r Relief 95-GO-03 for
Cir	cumferential	OFD-101A-2.4				0.531	calibration block.	
Class B				Pipe to				
				Elbow				
C05.021.008A	2-51A-130-4A	51A 2-51A-130	NDE-35	PT	SS	4.000		
Cir	cumferential	OFD-101A-2.4				0.531		
Class B				Pipe to				
				Elbow				
C05.021.009	2-51A-131-1	51A 2-51A-131	NDE-600	UT	SS	4.000	Reference Request for	r Relief 95-GO-03 for
Cir	cumferential	OFD-101A-2.4				0.531	calibration block.	
Class B				Pipe to				
				Elbow				
C05.021.009A	2-51A-131-1	51A 2-51A-131	NDE-35	PT	SS	4.000		
Cir	cumferential	OFD-101A-2.4				0.531		
Class B				Pipe to				
				Elbow				
C05.021.010	2-51A-131-11	51A 2-51A-131	NDE-600	UT	SS	4.000	Reference Request fo	r Relief 95-GO-03 for
Cir	cumferential	OFD-101A-2.4				0.531	calibration block.	1 1 () () ()
Class B				Elbow t	0			
				Pipe				
C05.021.010A	2-51A-131-11	51A 2-51A-131	NDE-35	PT	SS	4.000		
Cir	cumferential	OFD-101A-2.4				0.531		
Class B				Elbow t	0			
				Pipe				

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

Oconee 2

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

Inservice Inspection Plan for Interval 3 Outage 3

NOZA	114 1- NF 3 4		inservice i	nspection i	Pian for in	iterval 3 Outage 3	02/02/20
ITEM NUMB	ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ		H DIA/THK CAL BLOCKS	COMMENTS
05.021.036	2-51A-28-15	51A 2-51A-28 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Pipe to			
				Flange			
005.021.036	A 2-51A-28-15	51A 2-51A-28 (1)	NDE-35	PT	SS	4.000	
	Circumferential	OFD-101A-2.4				0.531	
Class B				Pipe to			
				Flange			
05.021.037	2-51A-28-17	51A 2-51A-28 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Tee to	•		
<u> </u>			•	Pipe			
05.021.037	A 2-51A-28-17	51A 2-51A-28 (1)	NDE-35	PT	SS	4.000	
	Circumferential	OFD-101A-2.4				0.531	
Class B				Tee to			
				Pipe			
05.021.038	2-51A-28-21	51A 2-51A-28 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Pipe to			
				Valve 2	2HP-135		
	2-51A-28-21	51A 2-51A-28 (1)	NDE-35	PT	SS	4.000	
	Circumferential	OFD-101A-2.4				0.531	
Class B				Pipe to			
		7000		Valve 2	2HP-135		
05.021.039	2-51A-28-23	51A 2-51A-28 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Tee to			
				Elbow			
05.021.039A		51A 2-51A-28 (1)	NDE-35	PT	SS	4.000	
	Circumferential	OFD-101A-2.4				0.531	
Class B				Tee to			
				Elbow			
05.021.040	2HP-222-2	51A 2HP-222	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.674	calibration block.
Class B					:HP-26 to		
				Elbow			

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

Oconee 2

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

Inservice Inspection Plan for Interval 3 Outage 3

NPS Z ANG <=	NPS 4		inservice li	nspection P	'lan for inte	erval 3 Outage 3	02/02/2000
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	H DIA/THK CAL BLOCKS	COMMENTS
C05.021.040A 2H	P-222-2	51A 2HP-222	NDE-35	PT	SS	4.000	
Circun	mferential	OFD-101A-2.4				0.674	
Class B					HP-26 to		
				Elbow			
C05.021.041 2-5	51A-28-104	51A 2-51A-28 (2)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
Circun	mferential	OFD-101A-2.4				0.674	calibration block.
Class B				Elbow t	to		
				Pipe			
C05.021.041A 2-5	51A-28-104	51A 2-51A-28 (2)	NDE-35	PT	SS	4.000	
Circun	mferential	OFD-101A-2.4				0.674	
Class B				Elbow t	to		
				Pipe			
C05.021.066 2-5	51A-17 - 93	51A 2-51A-17 (2)	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
Circun	mferential	OFD-101A-2.3				0.375	calibration block.
Class B				Tee to			
				Pipe			
C05.021.066A 2-5	51A-17-93	51A 2-51A-17 (2)	NDE-35	PT	SS	2.500	
Circun	mferential	OFD-101A-2.3				0.375	
Class B				Tee to			
				Pipe			
C05.021.067 2-5	1A-17-98EA	51A 2-51A-17 (2)	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
Circun	mferential	OFD-101A-2.2				0.375	calibration block.
Class B				Valve 2	HP-63 to		
				Elbow			
C05.021.067A 2-5	1A-17-98EA	51A 2-51A-17 (2)	NDE-35	PT	SS	2.500	
Circun	mferential	OFD-101A-2.2				0.375	
Class B					HP-63 to		
				Elbow			
C05.021.068 2-5	1A-17-98EB	51A 2-51A-17 (2)	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
Circun	mferential	OFD-101A-2.2				0.375	calibration block.
Class B				Elbow t			
				Valve 2	HP-62		
C05.021.068A 2-5	1A-17-98EB	51A 2-51A-17 (2)	NDE-35	PT	SS	2.500	
Circun	mferential	OFD-101A-2.2				0.375	
Class B				Elbow t	0		
				Valve 2	HP-62		

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

Oconee 2

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

Inservice Inspection Plan for Interval 2 Outage 2

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NPS 2 At	nd <= NPS 4		Inservice I	nspection F	Plan for inte	erval 3 Outage 3	02/02/2000
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	H DIA/THK CAL BLOCKS	COMMENTS
C05.021.069	2-51A-28-102	51A 2-51A-28 (2)	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.552	calibration block.
Class B				Pipe to)		
				Tee			
C05.021.069A	2-51A-28-102	51A 2-51A-28 (2)	NDE-35	PT	SS	2.500	
	Circumferential	OFD-101A-2.4				0.552	
Class B				Pipe to	1		
				Tee			
C05.021.070	2HP-299-72	51A 2HP-299	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
1	Circumferential	OFD-101A-2.4				0.375	calibration block.
Class B				Pipe to	1		Isometric 2-51A-28 was revised to transfer some
				Tee			welds to new isometric 2HP-299. This weld used to be 2-51A-28-72.
C05.021.070A	2HP-299-72	51A 2HP-299	NDE-35	PT	SS	2.500	Isometric 2-51A-28 was revised to transfer some
	Circumferential	OFD-101A-2.4				0.375	welds to new isometric 2HP-299. This weld used to
Class B				Pipe to			be 2-51A-28-72.
				Tee			
C05.021.071	2HP-299-75	51A 2HP-299	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
1	Circumferential	OFD-101A-2.4				0.375	calibration block.
Class B				Pipe to			Isometric 2-51A-28 was revised to transfer some
				Elbow			welds to new isometric 2HP-299. This weld used to be 2-51A-28-75.
C05.021.071A		51A 2HP-299	NDE-35	PT	SS	2.500	Isometric 2-51A-28 was revised to transfer some
	Circumferential	OFD-101A-2.4				0.375	welds to new isometric 2HP-299. This weld used to
Class B				Pipe to			be 2-51A-28-75.
				Elbow			
C05.021.072	2HP-341-77	51A 2HP-341	NDE-600	UT	SS	2.500	Reference Request for Relief 95-GO-03 for
	Circumferential	OFD-101A-2.4				0.375	calibration block.
Class B				Valve 2	HP-119 to		This weld used to be listed as 2-51A-28-77 and was
				Elbow			shown on isometric 2-51A-28 (2).
C05.021.072A	2HP-341-77	51A 2HP-341	NDE-35	PT	SS	2.500	This weld used to be listed as 2-51A-28-77 and was
(Circumferential	OFD-101A-2.4				0.375	shown on isometric 2-51A-28 (2).
Class B				Valve 2	HP-119 to		
				Elbow			

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

Oconee 2

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Piping Welds > 1/5 in. Nom Wall For Piping >=	Oconee 2
NPS 2 And <= NPS 4	Inservice Inspection Plan for Interval 3 Outage 3

ITEM NUMBER	R ID NUMBEI	R SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S	SCH DIA/THK CAL BLOCKS	COMMENTS
C05.021.073	2HP-299-76	51A 2HP-299	NDE-600	UT	SS	2.500	Isometric 2-51A-28 was revised to transfer some
	ircumferential	OFD-101A-2.4				0.375	welds to new isometric 2HP-299. This weld used to
Class B				Elbow 1			be 2-51A-28-76.
				Valve 2	HP-119		Reference Request for Relief 95-GO-03 for calibration block.
C05.021.073A	2HP-299-76	51A 2HP-299	NDE-35	PT	SS	2.500	Isometric 2-51A-28 was revised to transfer some
	ircumferential	OFD-101A-2.4				0.375	welds to new isometric 2HP-299. This weld used to
Class B				Elbow 1			be 2-51A-28-76.
				Valve 2	HP-119		
C05.021.085	2-51A-27-11	51A 2-51A-27 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
	ircumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Pipe to	ı		
				Elbow			
C05.021.085A		51A 2-51A-27 (1)	NDE-35	PT	SS	4.000	
	ircumferential	OFD-101A-2.4				0.531	
Class B				Pipe to			
				Elbow			
C05.021.091	2-51A-27-34	51A 2-51A-27 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
С	ircumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Elbow t	to		
				Pipe			
C05.021.091A	2-51A-27-34	51A 2-51A-27 (1)	NDE-35	PT	SS	4.000	
С	ircumferential	OFD-101A-2.4				0.531	
Class B				Elbow t	to		
				Pipe			
C05.021.097	2-51A-28-7	51A 2-51A-28 (1)	NDE-600	UT	SS	4.000	Reference Request for Relief 95-GO-03 for
С	ircumferential	OFD-101A-2.4				0.531	calibration block.
Class B				Tee to			
				Pipe			
C05.021.097A	2-51A-28-7	51A 2-51A-28 (1)	NDE-35	PT	SS	4.000	
С	ircumferential	OFD-101A-2.4				0.531	
Class B				Tee to			
				Pipe			

CATEGORY C-F-1, Pressure Retaining Welds

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

In Austenitic SS or High Alloy Piping

Oconee 2

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

Inservice Inspection Plan for Interval 3 Outage 3

	- 11 - 1		HISCIAICE I	nspection r	rian for inte	rvai 3 Outage 3	02/02/2000
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
	1A-33-4 nferential	51A 2-51A-33 OFD-101A-2.1	NDE-600	UT	SS	2.500 0.375	Reference Request for Relief 95-GO-03 for calibration block.
Class B				Pipe to Elbow			
	1A-33-4 nferential	51A 2-51A-33 OFD-101A-2.1	NDE-35	PT	SS	2.500 0.375	
Class B				Pipe to Elbow			
Total C05.021 Item	ns: 44						

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

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

Socket Welds

Oconee 2

Inservice Inspection Plan for Interval 3 Outage	3
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			Inservice		02/02/2000			
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS	
C05.030.004	2-51B-23-67	51B 2-51B-23	NDE-35	PT	SS	2.000		
;	Socket	OFD-101A-2.2				0.154		
Class B				Tee to				
				Pipe				
Total C05.0	30 Items: 1					74.00		

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

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

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

Oconee 2

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for Dining		nai Wan Thickness			ice z	Page	
for Piping						Interval 3 Outage 3	02/02/20
ITEM NUMBE		SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/	SCH DIA/THK CAL BLOCKS	COMMENTS
	ferential Weld ****						
C05.051.002	2-01A-4-29 Circumferential	01A 2-01A-4 (2) OFD-122A-2.1	NDE-600	UT	CS	36.000 1.164	Reference Request for Relief 95-GO-03 for calibration block.
Class B		0. 5 122/12.1		Pipe to		1.104	Campiation block.
				Elbow			
C05.051.002A	2-01A-4-29	01A 2-01A-4 (2)	NDE-25	MT	CS	36.000	
(Circumferential	OFD-122A-2.1				1.164	
Class B				Pipe to			
				Elbow			
C05.051.004	2-MS1A-B	01A 2-01A-5 (2)	NDE-600	UT	CS	26.000	Subassembly 2MS-1A.
(Circumferential	OFD-122A-2.1				0.875	Reference Request for Relief 95-GO-03 for
Class B		2MS-1A		Pipe to			calibration block.
				Reduce	r		
C05.051.004A		01A 2-01A-5 (2)	NDE-25	MT	CS	26.000	Subassembly 2MS-1A
	Circumferential	OFD-122A-2.1				0.875	
Class B		2MS-1A		Pipe to			
				Reduce	r		
C05.051.011	2-MSB10-E	01A 2MS-111	NDE-600	UT	CS	12.000	Subassembly 2MSB-10.
	Circumferential	OFD-122A-2.2				0.562	Reference Request for Relief 95-GO-03 for
Class B		2MSB-10		Elbow t	0		calibration block.
				Pipe			This subassembly used to be shown on isometric
							2-01A-15 until the subassembly was transferred 2MS-111.
C05.051.011A	2-MSB10-E	01A 2MS-111	NDE-25	MT	CS	12.000	
	Circumferential	OFD-122A-2,2	1104-20	iAI 1	US	0.562	Subassembly 2MSB-10. This subassembly used to be shown on isometric
Class B		2MSB-10		Elbow to	0	0.302	2-01A-15 until the subassembly was transferred
		1.		Pipe	•		2MS-111.
C05.051.031	2-14B-49-136	14B 2-14B-49	NDE-600	UT	CS	8.000	Flange at valve 2LPSW-18.
C	Circumferential	OFD-124B-2.2		•.		0.500	Reference Request for Relief 95-GO-03 for
Class B				Flange	to	3.333	calibration block.
				Pipe			
C05.051.031A	2-14B-49-136	14B 2-14B-49	NDE-25	MT	CS	8.000	Flange at valve 2LPSW-18.
C	Circumferential	OFD-124B-2.2			_	0.500	. Indian at the LLI OVV-10.
Class B				Flange 1	to		
				•			

Pipe

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

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

Oconee 2

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

for Piping > NPS 4 Inservice Inspection Plan for Interval 3 Outage 3

IOI PIDIII	4 - INF 3 4		inservice i	inspection F	'lan for in	terval 3 Outage 3	02/02/2000
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS
C05.051.033	2-14B-50-111	14B 2-14B-50	NDE-600	UT	CS	8.000	Reference Request for Relief 95-GO-03 for
(Circumferential	OFD-124B-2.2				0.500	calibration block.
Class B				Elbow 1	to		
				Pipe			
C05.051.033A	2-14B-50-111	14B 2-14B-50	NDE-25	MT	CS	8.000	
(Circumferential	OFD-124B-2.2				0.500	
Class B				Elbow 1	to		
				Pipe			
C05.051.034	2LPS-606-4	14B 2LPS-606	NDE-600	UT	CS	8.000	This weld was listed previously as 2-14B-51-4 until
(Circumferential	OFD-124B-2.2				0.500	iso 2-14B-51 was redrawn.
Class B				Reference Request for Relief 95-GO-03 for			
				calibration block.			
C05.051.034A	2LPS-606-4	14B 2LPS-606	NDE-25	MT	CS	8.000	This weld was listed previously as 2-14B-51-4 until
(Circumferential	OFD-124B-2.2				0.500	iso 2-14B-51 was redrawn.
Class B				Pipe to			
				Elbow			
Total C05.0	51 Items: 12						

CATEGORY C-F-2, Pressure Retaining Welds

In Carbon Or Low Alloy Steel Piping

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

Oconee 2

Plan Report Page 40 02/02/2000

Pipe	<u>Branch</u>	Connections	of	Branch	Piping >=
MDC	^			***	

Inservice Inspection Plan for Interval 3 Outage 3

ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S	CH DIA/THK CAL BLOCKS	COMMENTS
**** Circum	ferential Weld ****			··· ·			
C05.081.004	2-FWD63-B	03 2-03-18 (2)	NDE-25	MT	CS		This branch connection weld is covered by a
Branch Class B		OFD-121B-2.3 2FWD-63		Pipe to)	1.031	reinforcing plate weld. The examination requirements will be as shown by Figure
			-	Pipe			IWC-2500-13.

Total C05.081 Items:

60

Total C05 Items:

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

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

<u>Integral Attachment</u>

Oconee 2

Page 41										
02/02/2000	02/02/2		an for Interval	spection Pl	Inservice I					
	COMMENTS	A/THK CAL BLOCKS	MAT/SCH DIA	INSP REQ	PROC	S ISO/DWG NUMBERS	SYS	ID NUMBER	ITEM NUMBE	
						ints ****	Restrair	ent Supports and R	**** Compo	
4, PROBLEM NO. 2-03-01, PG 44.	FILE NO. OS-454,	24.000 1.500		VT-3	QAL-14	0-551 OFD-121B-2.3		2-03-H49 gid Restraint	D02.020.009	
		1.500		SWAY S		01 5-1215-2.0		gia riodiani	Class C	
SC-1224-17, Page No. 50.1;	File Number = OS	6.000	NA	VT-3	QAL-14	0-1480A	03A C	2-03A-H8A	D02.020.049	
r = 2-03A-13; Aux Service Water	Problem Number = Piping	0.203				OFD-121D-2.1	C	gid Restraint	Class C	
SC-447, Page No. 107; Problem	File Number = OS	6.000	NA	VT-3	QAL-14	1-0-1439A		2-03A-R59	D02.020.053	
-05;	Number = 2-03A-0	1.000				OFD-121D-2.1	c	gid Restraint	Class C	
SC-449; Problem Number =	File Number = OS	6.000	NA .	VT-3	QAL-14	0-1401B		2-03A-RL-0603	D02.020.056	
of 6; Emergency Feedwater		0.500				OFD-121D-2.1	C	gid Restraint	Class C	
SC-449; Problem Number =	File Number = OS	6.000	NA	VT-3	QAL-14	1-0-1437A	03A 1	2-03A-SR11	D02.020.060	
of 6; Emergency Feedwater Bypass	2-03A-08, Sht 3 of Line					OFD-121D-2.1	C	gid Restraint	Class C	
SC-450, Page No. 105; Problem	File Number = OS	6.000	NA .	VT-3	QAL-14	1-0-437B		2-03A-SR16	D02.020.064	
-09; EFW Crossover		1.000				OFD-121D-2.1	C	gid Restraint	Class C	
SC-457, Page No. 43; problem	File Number = OS	6.000	NA	VT-3	QAL-14	1-0-1401B	03A 1	2-03A-SR17	D02.020.065	
-04; EFW Bypass Line to EFW	Number = 2-03a-0 Pumps	1.000				OFD-121D-2.1	C	gid Restraint	Class C	
SC-449; Problem Number =	File Number = OS	6.000		VT-3	QAL-14	1-0-1400B		2-03A-SR24	D02.020.071	
of 6; Emergency Feedwater	2-03A-08, Sht. 5 oʻ Bypass Line		,			OFD-121D-2.1	С	gid Restraint	Class C	

Integral Attachment

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

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

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Inservice	Inspection	Plan for	Interval 3	Outage 3
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			Inservice	Inspection F	'lan for	Interval 3 Outage 3	02/02/2000
ITEM NUMB		SYS ISO/DWG NUMBERS	PROC	INSP REQ	MATA	SCH DIA/THK CAL BLOCKS	COMMENTS
D02.020.079 Class C	2-03A-SR3 Rigid Restraint	03A 1-0-1437A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 1.000	File Number = OSC-450, Page No. 105; Problem Number = 2-03A-09; EFW Crossover
D02.020.082 Class C	2-03A-SR31 Rigid Restraint	03A 1-0-1401A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 1.000	File Number = OS-459; Problem Number = 2-03A-06 Sht. 1 of 4; Emergency Feedwater
D02.020.094 Class C	2-03A-SR44 Rigid Restraint	03A 1-0-1439C OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.375	File Number = OSC-1224-21; Problem Numbers = 2-03A-14, Shts. 1 of 3 & 2of 3; Aux Service Water Pipe
D02.020.107	2-13-SR2 Rigid Restraint	13 7-0-1400B OFD-133A-2.2	QAL-14	VT-3	NA	24.000 0.500	File Number = OS-471;Problem Number = 13-7, SHt. 1of 1; Emergengy Cooling Water Discharge
D02.020.108	0-14-H7010 Rigid Restraint	13 0-447B OFD-133A-2.5	QAL-14	VT-3	NA	6.000 0.500	File Number = OSC-1224-28; Problem Number = 4-14-15, Sht. 1of 1
D02.020.110 Class C	2-14B-DE026 Rigid Restraint	14B 0-437B OFD-124B-1.1	QAL-14	VT-3	NA	12.000 1.000	Calculaton No. OSC-1541; Problem No. 1-14-06 SHT.3 OF 3. System 14B;PAGE 102; LPSW SUPPLY TO COMPONENT COOLERS & LP COOLERS 1A & 1B
D02.020.111 Class C	2-14B-DE135 Rigid Restraint	14B 0-1437A OFD-124B-2.1	QAL-14	VT-3	NA	20.000 1.000	FILE NO. OSC-475 PROBLEM NO.2-14-6 SHT.3OF3 LP SERVICE WATER
D02.020.112 Class C	2-14B-DE136 Rigid Restraint	14B 0-1437A OFD-124B-2.1	QAL-14	VT-3	NA	20.000 1.000	FILE NO. OSC-475 PROBLEM NO. 2-14-6 SHT3OF3 LP SERVICE WATER
D02.020.113	2-14B-DE137 Rigid Restraint	14B 0-1437A OFD-124B-2.1	QAL-14	VT-3	NA	20.000 1.000	FILE NO. OSC-475 PROBLEM NO. 2-14-6 SHT3OF3 LP SERVICE WATER

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

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

Integral Attachment

Total D02.020 Items:

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							Page 43
		Inservice	Inspection P	lan for Inte		02/02/2000	
ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC				COMMENTS	
2-14B-DE139	14B 0-1437A	QAL-14	VT-3	NA	16.000	FILE NO. OSC-474	
Rigid Restraint	OFD-124B-2.1				1.000	PROBLEM NO. 4-14-04 SHT10F3	
						LP SERVICE WATER	
2-14B-DE141	14B 0-1437A	QAL-14	VT-3	NA	16.000	FILE NO. OSC-474	
Rigid Restraint	OFD-124B-2.1				1.000	PROBLEM NO. 4-14-04 SHT10F3	
					·	LP SERVICE WATER	
2-14B-DE180	14B 0-1439A	QAL-14	VT-3	NA	8.000	FILE NO. OSC-475	
Rigid Restraint	OFD-124B-2.2				0.125		
						LPSWATER	
2-14B-DE181	14B 0-1439A	QAL-14	VT-3	NA	8.000	FILE NO. OSC-475	
Rigid Restraint	OFD-124B-2.2				0.125	PROBLEM NO. 2-14-6 SHT.2OF3	
						LPSWATER	
2-14B-H2	14B 1-0-1437A	QAL-14	VT-3	NA	16.000	FILE NO. OSC-475	
Rigid Restraint	OFD-124B-2.1				1.500		
			SWAY S	TRUT to		LP SERVICE WATER	
2-14B-H3	14B 1-0-1444	QAL-14	VT-3	NA	14.000	FILE NO. OSC-475	
Rigid Restraint	OFD-124B-2.1				1.500		
						LP SERVICE WATER	
	2-14B-DE139 Rigid Restraint 2-14B-DE141 Rigid Restraint 2-14B-DE180 Rigid Restraint 2-14B-DE181 Rigid Restraint 2-14B-H2 Rigid Restraint	2-14B-DE139 Rigid Restraint 2-14B-DE141 Rigid Restraint 2-14B-DE141 ARigid Restraint 2-14B-DE180 ARigid Restraint 2-14B-DE180 ARigid Restraint 2-14B-DE181 ARigid Restraint 2-14B-DE181 ARigid Restraint 2-14B-DE181 ARigid Restraint 2-14B-H2 ARigid Restraint 14B 0-1439A OFD-124B-2.2 2-14B-H2 ARIGID RESTRAINT 14B 1-0-1437A OFD-124B-2.1	ER ID NUMBER SYS ISO/DWG NUMBERS PROC 2-14B-DE139 14B 0-1437A QAL-14 Rigid Restraint OFD-124B-2.1 QAL-14 2-14B-DE141 14B 0-1437A QAL-14 Rigid Restraint OFD-124B-2.1 QAL-14 2-14B-DE180 14B 0-1439A QAL-14 Rigid Restraint OFD-124B-2.2 QAL-14 2-14B-DE181 14B 0-1439A QAL-14 Rigid Restraint OFD-124B-2.2 QAL-14 2-14B-H2 14B 1-0-1437A QAL-14 Rigid Restraint OFD-124B-2.1 QAL-14	ER ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ 2-14B-DE139 14B 0-1437A QAL-14 VT-3 Rigid Restraint OFD-124B-2.1 QAL-14 VT-3 2-14B-DE141 14B 0-1437A QAL-14 VT-3 Rigid Restraint OFD-124B-2.1 QAL-14 VT-3 2-14B-DE180 14B 0-1439A QAL-14 VT-3 Rigid Restraint OFD-124B-2.2 QAL-14 VT-3 2-14B-DE181 14B 0-1439A QAL-14 VT-3 Rigid Restraint OFD-124B-2.2 QAL-14 VT-3 SWAY S 2-14B-H2 14B 1-0-1444 QAL-14 VT-3 2-14B-H3 14B 1-0-1444 QAL-14 VT-3	ER ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SCH 2-14B-DE139 14B 0-1437A QAL-14 VT-3 NA Rigid Restraint OFD-124B-2.1 QAL-14 VT-3 NA 2-14B-DE141 14B 0-1437A QAL-14 VT-3 NA Rigid Restraint OFD-124B-2.1 QAL-14 VT-3 NA Rigid Restraint OFD-124B-2.2 QAL-14 VT-3 NA Rigid Restraint OFD-124B-2.2 QAL-14 VT-3 NA 2-14B-H2 14B 1-0-1437A QAL-14 VT-3 NA Rigid Restraint OFD-124B-2.1 SWAY STRUT to SWAY STRUT to	2-14B-DE139	D NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SCH DIA/THK CAL BLOCKS COMMENTS

CATEGORY D-B, Systems In Support Of ECC,

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

CHR, Atmos. Cleanup, And Reactor RHR Integral Attachment

Oconee 2

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	Inservice Inspection Plan for Interval 3 Outage 3									
3ER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH DIA/THK CAL BLOCKS COMMEN	ITS				
anical a	nd Hydraulic S	nuhhers ****								

			111301 1100	mapection F	ian ioi mile		02/02/2000	
ITEM NUMBE	R ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS	
**** Mechan	ical and Hydraulic S	Snubbers ****						
D02.030.005 N Class C	2-03A-H3A Mech Snubber	03A 0-1480A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.237	File Number = OSC-1224-17, Page Problem Number = 2-03A-13; Aux S Piping. Inspect with Item No. F01.	Service Water
D02.030.006 F Class C	2-03A-SR100 Hyd Snubber	03A 1-0-1400B OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.203	File Number = OSC-449; Problem No. 2-03A-08, Sht. 5 of 6; Emergency F Bypass Line. Inspect with Item No.	eedwater

Total D02.030 Items:

2

<u>Integral Attachment</u>

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

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

Oconee 2

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Inservice	Inspection	Plan for	Interval	3	Outage	3
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								o outugo o	
ITEM NUMB	ER	ID NUMBER	SYS	S ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL BLOCKS	COMMENTS
**** Spring	Type S	upports ****							
D02.040.007 Class C	2-03- Spring H		03	0-1439A OFD-121B-2.3	QAL-14	VT-3	NA	24.000 0.500	FILE NO. OS-454, PROBLEM NO. 2-03-01, PG 4
D02.040.012 Class C	2-03A Spring H	– –	03A	1-0-1400A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.125	File Number = OSC-1213; Problem Number = 2-03A-12, Sht. 1 of 2; Aux Feedwater Discharge Sys.
D02.040.013	2-03A Spring H	•	03A	1-0-1401B OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.500	File Number = OSC-449; Problem Number = 2-03A-08, Sht. 4 of 6; Emergency Feedwater Bypass Line

Total D02.040 Items:

3 28

Total D02 Items:

CATEGORY D-C, Systems In Support Of RHR

From Spent Fuel Storage Pool

Rigid Restraint

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

Oconee 2

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<u>Integral Attachment</u>

Inservice Inspection Plan for Interval 3 Outage 3

ITEM NUMBER ID NUMBER SYS ISO/DWG NUMBERS PROC INSPIREQ MAT/SCH DIA/THK CAL BLOCKS COMMENTS

OFD-104A-1.1

QAL-14

VT-3

NA

8.000 0.750 Calculaton No. OS-421

Page 97; Problem No.4-56-02

Spent Fuel Cooling

System 56

Total D03.020 Items:

1

Total D03 Items:

Class C

1

Total F01.012 Items:

CATEGORY F-A, Supports (Category A)

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

3

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

Oconee 2

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Bld. Str	ucture		Inservice	Inspection F	Plan for Interva	02/02/2000	
ITEM NUMB	ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH D	IA/THK CAL BLOCKS	COMMENTS
F01.010.004	2-51A-H5C Rigid Restraint	51A 0-1478A OFD-101A-2.1	QAL-14	VT-3	NA	2.500 0.500	File Number = OSC-1660-06, Page 84.1;Problem Number = 2-51-12; RC Pump Piping to HP Injection Letdown Coolers
Total F01.	010 Items: 1						
F01.011.003	2-51A-H8A Rigid Restraint	51A 0-1479A OFD-101A-2.4	QAL-14	VT-3	NA	2.500 0.000	FILE NO. OSC-1324-06 SHT.4OF5 PROBLEM NO.2-53-15 HPI SYSTEM EAST COOLANT LOOP
Total F01.	011 Items: 1						
F01.012.003	2-50-H8 Hyd Snubber	50 0-1480A OFD-100A-2.2	QAL-14	VT-3	NA	2.500 0.000	FILE NO. OSC-1324-06 SHT.1 OF 2 PROBLEM NO.2-53-14 PZR SPRAY SYSTEM. INSPECT WITH ITEM NO. F01.050.020
F01.012.008 Class A	2-57-RJP-H0801 Hyd Snubber	57 0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	2.500 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM. INSPECT WITH ITEM NO. F01.050.038
F01.012.010 Class A	2-50-RCPM-2A2-SS2 Hyd Snubber	50 0-1066A OFD-100A-2.1 OFD-100A-2.3	QAL-14	VT-3	NA	6.000 0.000	File No. OSC-0991-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-096-1575. Inspect with F01.050.102.

CATEGORY F-A, Supports (Category A)

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

Class 2 Weld Connections to Building Structure

Oconee 2

			Inservice	Inspection P	lan for inte	erval 3 Outage 3	02/02/20	
ITEM NUME	BER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS	
F01.020.004	2-01A-H7 Rigid Restraint	01A 0-1401B OFD-122A-2.1	QAL-14	VT-3	NA	36.000 0.000	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40	
Class B							MAIN STEAM PIPING	
F01.020.009	2-14B-H22C	14B 0-1480A	QAL-14	VT-3	NA	8.000	FILE NO. OSC-1325	
Class B	Rigid Restraint	OFD-1 24 B-2.2				0.000	PROBLEM NO. 2-14-13 VOL.3OF12 LP SERVICE WATER	
F01.020.013	- · · · · · · · - •	51A 0-1478A	QAL-14	VT-3	NA	2.500	File Number = OSC-1322; Problem Number =	
Class B	Rigid Restraint	OFD-101A-2.1				0.500	2-51-25; Drawing No.= 0-1492B-4(s) & Drawing No.= 0-1492B-4A(s); SYSTEM 51A	
F01.020.016	2-51A-H175	51A 0-1439A	QAL-14	VT-3	NA	4.000	FILE NO. OSC-1023 PAGE 47.1 PROBLEM	
Class B	Rigid Restraint	OFD-101A-2.4				0.000	NO.2-51-18 HPI SYSTEM CROSSOVER LINE	
F01.020.019	2-51A-H7	51A 2-0-437B	QAL-14	VT-3	NA	4.000	FILE NO. OSC-1023 PAGE 52.1 PROBLEM	
Class B	Rigid Restraint	OFD-101A-2.4				0.000	NO.2-51-18 HPI SYSTEM CROSSOVER LINE	
F01.020.024	2-53B-DE054	53B 0-1436A	QAL-14	VT-3	NA	10.000	FILE NO. OS-487, PROBLEM NO. 2-53-01, SHT 3	
Class B	Rigid Restraint	OFD-102A-2.2				0.000	OF 5. L. P. INJECTION & DECAY HEAT REMOVAL SYSTEM 53B.	
F01.020.029	2-53B-H31	53B 5-0-1439C	QAL-14	VT-3	NA	10.000	FILE NO. OS-493, PROBLEM NO. 2-53-2, SHT 3	
Class B	Rigid Restraint	OFD-102A-2.2				0.500	OF 4. FROM L. P. PUMPS "2A" & "2C" TO R. B. & BORATED WATER STORAGE TANK SYSTEM "53A" & "53B".	
F01.020.037 Class B	2-54A-H25 Rigid Restraint	54A 3-0-1439A OFD-103A-2.1	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OS-496, PROBLEM NO. 2-54-03, SHT 2 OF 2. SYSTEM 54A.	

Class B

CATEGORY F-A, Supports (Category A)

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

Class	Wold Comments and			_	•		Plan Report
Class 2	Weld Connections to	Building Structure		Ocon			Page 49
	.=.			Inspection P		terval 3 Outage 3	02/02/2000
ITEM NUME		SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS
F01.020.046 Class B	2-51B-H55 Rigid Restraint	51B 2-0-436E OFD-101A-2.1	QAL-14	VT-3	NA	4.000 0.000	Calc# OSC-479, Page 52 Problem# 2-51-01, sht. 3 of 6
Total F01.	020 Items: 9						
F01.021.005 Class B	2-14B-H12 Rigid Restraint	14B 0-1479A OFD-124B-2.2	QAL-14	VT-3	NA	6.000 0.750	FILE NO. OSC-1325 PROBLEM NO. 2-14-16 VOL.6 OF 12 LP SERVICE WATER
F01.021.008 Class B	2-51A-SR116 Rigid Restraint	51A 1-0-436J OFD-101A-2.3	QAL-14	VT-3	NA	4.000 0.750	FILE NO. OSC-481,Page 142.1; Problem Number = 51-2
F01.021.016 Class B	2-51A-H6 Rigid Restraint	51A 3-0-437B OFD-101A-2.4	QAL-14	VT-3	NA	4.000 0.000	FILE NO. OSC-1023 PAGE 52.1 PROBLEM NO.2-51-18 HPI SYSTEM CROSSOVER LINE
F01.021.020 Class B	2-53-H5 Rigid Restraint	53 0-1478A OFD-102A-2.1	QAL-14	VT-3	NA	12.000 0.337	FILE NO. OSC-1320-06, PROBLEM NO. 2-53-10, PAGE 83. DECAY HEAT REMOVAL SYSTEM.
F01.021.031 Class B	2-51B-DE012 Rigid Restraint	51B 436J OFD-101A-2.2	QAL-14	VT-3	NA	2.000 0.000	Calc# OSC-481, Page 147 Problem# 51-2, sht. 6 of 6
Total F01.0	021 Items: 5						
F01.022.004	2-01A-H3 Spring Hgr	01A 2-1-0-1401B OFD-122A-2.3	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OSC-446 PROBLEM NO. 2-01-5 SHT 1 OF 3

STEAM SUPPLY TO FWP TURBINE

CATEGORY F-A, Supports (Category C)

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

Class 2	<u> 2 Weld</u>	<u>Connections</u>	to	Building	Structure

Oconee 2

		Inservice I	Inspection F	Plan for Inte	erval 3 Outage 3	02/02/2000	
R ID NUMBER	SYS ISO/DWG NUMBERS	PROC				COMMENTS	
2-03-H7A yd Snubber	03 0-1480A OFD-121B-2.3	QAL-14	VT-3	NA	24.000 0.237	MAIN FEEDWATER WEST GEN. 2B, DWG NO. O-1490 B-4. INSPECT WITH ITEM NO. F01.050.016	
2-53B-H2 pring Hgr	53B 10-0-435B OFD-102A-2.2	QAL-14	VT-3	NA	8.000 0.216	FILE NO. OS-487, PROBLEM NO. 2-53-01, SHT 3 OF 5. L. P. INJECTION & DECAY HEAT REMOVAL SYSTEM 53B.	
2-57-H16 yd Snubber	57 0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM. INSPECT WITH ITEM NO. F01.050.030	
\ -	2-03-H7A vd Snubber 2-53B-H2 oring Hgr 2-57-H16	2-03-H7A 03 0-1480A od Snubber OFD-121B-2.3 2-53B-H2 53B 10-0-435B oring Hgr OFD-102A-2.2 2-57-H16 57 0-1481A	ID NUMBER SYS ISO/DWG NUMBERS PROC	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ	ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ MAT/SCH	2-03-H7A	

CATEGORY F-A, Supports (Category A)

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

Class 3 Weld/Mech Conns at Inter Joints in

Oconee 2

Plan Report Page 51 02/02/2000

02/02/2000		itana 3	iterval 3 Outage	lan for Ir	- Comito III		nn Int & Nonint Supp	Multicor		
	COMMENTS		CH DIA/THK CAL		INSP REQ	PROC	S ISO/DWG NUMBERS	SYS	ER ID NUMBER	ITEM NUMB
C-1224-28; Problem Number =	File Number = OSC- 4-14-15, Sht. 1of 1		6.000 0.000	NA	VT-3	QAL-14	0-447A OFD-133A-2.5		0-14-H7020 Rigid Restraint	F01.030.002
	11 14 10, 011. 10, 1	•	0.000						-	Class C
C-457, Page No. 43; problem			6.000	NA	VT-3	QAL-14	0-1401B		2-03A-DE007 Rigid Restraint	F01.030.005
4; EFW Bypass Line to EFW	Number = 2-03a-04; Pumps	0	0.000				OFD-121D-2.1		Rigid Restraint	Class C
459; Problem Number =			6.000	NA	VT-3	QAL-14	0-1401A		2-03A-GC-907 Rigid Restraint	F01.030.011
f 4; Emergency Feedwater	2-03A-06 Sht. 1 of 4	0	0.000				OFD-121D-2.1		Rigid Restraint	Class C
C-457, Page No. 43; problem	File Number = OSC-		6.000	NA	VT-3	QAL-14	1-0-1401B		2-03A-SR16 Rigid Restraint	F01.030.020
4; EFW Bypass Line to EFW	Number = 2-03a-04; Pumps	0	0.000				OFD-121D-2.1		Nigiu Nestrallit	Class C
7, PROBLEM NO. 2-07-01, PG	FILE NO. OSC-467,		24.000	NA	VT-3	QAL-14	6-0-1402A		2-07A-R44 Rigid Restraint	F01.030.026
GE TANK TO CONDENSER	108. UPPER SURG SYSTEM 07A.		0.000				OFD-121A-2.7		rigiu restraint	Class C
}	FILE NO. OSC-473)	16.000	NA	VT-3	QAL-14	0-1437A		2-14B-H25	F01.030.032
	PROBLEM NO. 2-14 LP SERVICE WATE		0.000				OFD-124B-2.1		Rigid Restraint	Class C
	File No. OSC-474, P		8.000	NA	VT-3	QAL-14	1-0-1439B		2-14B-DE182	F01.030.039
	Problem No. 2-14-4, Low Pressure Servic		0.000				OFD-124B-2.2		Rigid Restraint	Class C
									30 Items: 7	Total F01.0
24-25	FILE NO. OSC-1224)	8.000	NA	VT-3	QAL-14	0-447A	13	0-13-H7007	F01.031.002
	PROBLEM NO. 4-13)	0.000				OFD-133A-2.5	(Rigid Restraint	Class C

Total F01.032 Items:

2

CATEGORY F-A, Supports (Category B)

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

			•	inservice ins	pection Data	base Manag	ement System	Dian	Plan Report
Class 3	Weld/Mech Conns at	Inter	Joints in		Ocon	Oconee 2 Page 52			
Multico	nn Int & Nonint Supp			Inservice I	nspection F	Plan for Inte	rval 3 Outage 3		2/2000
ITEM NUMB	BER ID NUMBER	SYS	S ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS	
F01.031.009 Class C	2-03A-SR11 Rigid Restraint	03A	1-0-1401B OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.000	File Number = OSC-447, Page No. 112; Pro Number = 2-03A-05; EFW to Main Feedwat	oblem er Line
F01.031.016 Class C	2-07A-SR3 Rigid Restraint	07A	0-1400A OFD-121A-2.8	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OSC-466, PROBLEM NO. 2-07-07 1 OF 3, & 3 OF 3. SYSTEM 07A.	2, SHTS.
F01.031.020 Class C	2-56-SR31 Rigid Restraint	56	0-1439E OFD-104A-1.1	QAL-14	VT-3	NA	8.000 0.750	Calculaton No. OS-421 Page 97; Problem No.4-56-02 Spent Fuel Cooling System 56	
Total F01.	031 Items: 4								
F01.032.001 Class C	2-01A-H8 Spring Hgr	01A	4-0-1403D OFD-122A-2.4	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, OF 4. STEAM SUPPLY TO EFWP.	, SHT 1
F01.032.010 Class C	2-56-H13 Spring Hgr	56	4-0-437B OFD-104A-1.1	QAL-15	VT-3	NA	8.000 0.000	Calculaton No. OS-421 Page 96.1; Problem No.4-56-02 Spent Fuel Cooling	

System 56

CATEGORY F-A, Supports

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

Oconee 2

Plan Report Page 53

<u>Assembly</u>	of Supp Items	-	Inservice I	nspection P	02/02/2000		
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ		SCH DIA/THK CAL BLOCKS	COMMENTS
F01.040.004	2-LDCB-SUPPORT	51A 1-34097-2 OM-201-3107	QAL-14	VT-3	CS	0.000	2B Letdown Cooler Supports. Class A.
Class A		OFD-101A-2.1		Pc. 12 to Casing	o Shell Pc	0.000	
F01.040.009	2-EFDW-MD-PU-A	OM-206-0036 OFD-121D-2.1	QAL-14	VT-3	NA	0.000 0.000	Emergency Feedwater Motot Driven Pump 2A. Pump Support & Pad. Class C
Class C						5,500	· amp capport a r au. ciado o
F01.040.011	2-EFDW-TD-PU	OM-206A-0001	QAL-14	VT-3	NA	0.000	Emergency Feedwater Turbine Driven Pump. Pump
Class C		OFD-121D-2.1				0.000	Support & Pad. Class C

Total F01.040 Items:

3

Clearances of Guides & Stops, Align of Supps,

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

Spring Supports & Constant Load Supports

Oconee 2

02/02/2000		Outage 3	n for Interval 3 Out	ion Pl	Inservice					
<u>TS</u>	COMMENTS	K CAL BLOCKS	MAT/SCH DIA/THK	REQ	INSP F	PROC	S ISO/DWG NUMBERS	ER SYS	R ID NUMBER	ITEM NUMB
PS-454, PROBLEM NO. 2-03-01, F	FILE NO. OS-454		A 24.000 1.000		VT-3	QAL-14	0-1401A OFD-121B-2.3	03	2-03-R12 Mech Snubber	F01.050.001 Class C
PS-454, PROBLEM NO. 2-03-01, F	FILE NO. OS-454		A 24.000 1.000	<u></u>	VT-3	QAL-14	0-1401A OFD-121B-2.3	03	2-03-R7 Mech Snubber	F01.050.002 Class C
S-454, PROBLEM NO. 2-03-01, F	FILE NO. OS-454		A 24.000 0.000		VT-3	QAL-14	0-1401A OFD-121B-2.3		2-03-H4087 Mech Snubber	F01.050.003 Class C
NO. 2-01-01 PAGE 40	FILE NO. OSC-44 PROBLEM NO. 2 MAIN STEAM PIF	000	A 36.000 0.000	ľ	VT-3	QAL-14	0-1401B OFD-122A-2.1		2-01A-R14 Hyd Snubber	F01.050.004 Class B
NO. 2-01-01 PAGE 40	FILE NO. OSC-44 PROBLEM NO. 2- MAIN STEAM PIF	00	A 36.000 0.000	ı	VT-3	QAL-14	0-1401B OFD-122A-2.1		2-01A-R15 Hyd Snubber	F01.050.005 Class B
NO. 2-01-01 PAGE 40	FILE NO. OSC-44 PROBLEM NO. 2- MAIN STEAM PIP	00	A 36.000 0.000	1	VT-3	QAL-14	0-1401B OFD-122A-2.1		2-01A-R16 Hyd Snubber	F01.050.006 Class B
NO. 2-01-01 PAGE 40	FILE NO. OSC-44 PROBLEM NO. 2- MAIN STEAM PIP	88	A 36.000 0.688	1	VT-3	QAL-14	0-1441 OFD-122A-2.1		2-01A-R2-1 Hyd Snubber	F01.050.007 Class B
NO. 2-01-01 PAGE 40	FILE NO. OSC-44 PROBLEM NO. 2- MAIN STEAM PIP	88	A 36.000 0.688	1	VT-3	QAL-14	0-1441 OFD-122A-2.1		2-01A-R2-2 Hyd Snubber	Class B

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

Spring Supports & Constant Load Supports

Oconee 2

			Inservice	Inspection P	lan for Ir	nterval 3 Outage 3	02/02/2000	
ITEM NUME		SYS ISO/DWG NUMBERS	PROC	INSP REQ		CH DIA/THK CAL BLOCKS	COMMENTS	
F01.050.009 Class B	2-01A-R9-2 Hyd Snubber	01A 0-1441 OFD-122A-2.1	QAL-14	VT-3	NA	36.000 0.688	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
F01.050.010 Class B	2-01A-R9-3 Hyd Snubber	01A 0-1441 OFD-122A-2.1	QAL-14	VT-3	NA	36.000 0.688	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
F01.050.011 Class B	2-01A-R9-4 Hyd Snubber	01A 0-1441 OFD-122A-2.1	QAL-14	VT-3	NA	36.000 0.688	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
F01.050.012 Class A	2-53-H3 Hyd Snubber	53 0-1478A OFD-102A-2.1	QAL-14	VT-3	NA	12.000 0.280	FILE NO. OSC-1320-06, PROBLEM NO. 2-53-10, PAGE 83. DECAY HEAT REMOVAL SYSTEM.	
F01.050.013 Class A	2-50-H12 Hyd Snubber	50 0-1479A OFD-100A-2.2	QAL-14	VT-3	NA	2.500 0.000	FILE NO. OSC-1324-06 SHT.10F2 PROBLEM NO.2-53-14 PZR SPRAY SYSTEM	
F01.050.014 Class A	2-51A-H2A Hyd Snubber	51A 0-1479A OFD-101A-2.4	QAL-14	VT-3	NA	2.500 0.154	FILE NO. OSC-1324-06 SHT.4OF5 PROBLEM NO.2-53-15 HPI SYSTEM EAST COOLANT LOOP	
F01.050.015 Class B	2-03-H6B Hyd Snubber	03 0-1480A OFD-121B-2.3	QAL-14	VT-3	NA	20.000 0.000	MAIN FEEDWATER EAST GEN. 2A, DWG NO. 0-1490 B-2.	
F01.050.016	2-03-H7A Hyd Snubber	03 0-1480A OFD-121B-2.3	QAL-14	VT-3	NA	24.000 0.237	MAIN FEEDWATER WEST GEN. 2B, DWG NO. O-1490 B-4.	
F01.050.017	2-03A-H1B Hyd Snubber	03A 0-1480A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.237	File Number = OSC-1224-17, Page 49; Problem Number 2-03A-13; Aux Service Water Piping.	

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

Spring Supports & Constant Load Supports

Oconee 2

		<u>oupporto</u>	Inconsico	lnonestien F			Page 56	
ITEM NUMBER ID NUMBER SYS ISO/DWG NUMBERS							02/02/2000	
				·			COMMENTS	
	50		QAL-14	VT-3	NA		FILE NO. OSC-1324-06 SHT.10F2 PROBLEM	
nya Snubber		OFD-100A-2.2				0.000	NO.2-53-14	
							PZR SPRAY SYSTEM	
2-50-H11	50	0-1480A	QAI -14	VT-3	NΔ	2 500	FILE NO. OCC 4224 OCCUT 4 OF C. PRODUCIA	
Hvd Snubber				V 1 0	14/3		FILE NO. OSC-1324-06 SHT.1 OF 2 PROBLEM NO.2-53-14	
•						0.000	PZR SPRAY SYSTEM.	
							2. COLIVE OF OF EIVI.	
2-50-H8	50	0-1480A	QAL-14	VT-3	NA	2.500	FILE NO. OSC-1324-06 SHT.1 OF 2 PROBLEM	
Hyd Snubber		OFD-100A-2.2					NO.2-53-14	
							PZR SPRAY SYSTEM.	
2 50 40	50	0.14904	041.44					
	50		QAL-14	V1-3	NA		FILE NO. OSC-1324-06 SHT.10F2 PROBLEM	
nya Shubber		OFD-100A-2.2				0.000	NO.2-53-14	
							PZR SPRAY SYSTEM	
2-01A-H2A	01A	0-1481A	QAL-14	VT-3	NA	24.000	FILE NO. OSC-440	
Hyd Snubber		OFD-122A-2.1					PROBLEM NO. 2-01-01 PAGE 40	
							MAIN STEAM PIPING	
2-01A-H2R	Ω1Δ	0-1481B	041.14	\/T 2	NIA .	04.000		
	UIA		QAL-14	V 1-3	IVA		FILE NO. OSC-440	
riya onabbei		OFD-122A-2.1				0.322	PROBLEM NO. 2-01-01 PAGE 40	
							MAIN STEAM PIPING.	
2-01A-H8A	01A	0-1481A	QAL-14	VT-3	NA	24.000	FILE NO. OSC-440	
Hyd Snubber		OFD-122A-2.1					PROBLEM NO. 2-01-01 PAGE 40	
							MAIN STEAM PIPING	
2-01A-H8B	01Δ	0-14814	001.14	VCT 0	NIA.	0.1.000		
			WAL-14	V 1-3	NA		FILE NO. OSC-440	
riya Shabbei		OFD-122A-2.1				0.322	PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
							WAIT OF EARLY FIFTING	
2-50-H1	50	0-1481A	QAL-14	VT-3	NA	2.500	FILE NO. OSC-1324-06 SHT.10F2 PROBLEM	
Hyd Snubber		OFD-100A-2.2				0.000	NO.2-53-14	
							PZR SPRAY SYSTEM	
	2-50-H10 Hyd Snubber 2-50-H11 Hyd Snubber 2-50-H8 Hyd Snubber 2-50-H9 Hyd Snubber 2-01A-H2A Hyd Snubber 2-01A-H2B Hyd Snubber 2-01A-H8A Hyd Snubber 2-01A-H8A Hyd Snubber	ER ID NUMBER SYS 2-50-H10 50 Hyd Snubber 50 2-50-H11 50 Hyd Snubber 50 2-50-H9 50 Hyd Snubber 01A 4 Hyd Snubber 01A 2-01A-H2B 01A Hyd Snubber 01A 2-01A-H8A 01A Hyd Snubber 01A 2-01A-H8B 01A Hyd Snubber 01A 2-50-H1 50	ER ID NUMBER SYS ISO/DWG NUMBERS 2-50-H10 50 0-1480A Hyd Snubber OFD-100A-2.2 2-50-H11 50 0-1480A Hyd Snubber OFD-100A-2.2 2-50-H8 50 0-1480A Hyd Snubber OFD-100A-2.2 2-50-H9 50 0-1480A Hyd Snubber OFD-100A-2.2 2-01A-H2A 01A 0-1481A Hyd Snubber OFD-122A-2.1 2-01A-H2B 01A 0-1481B Hyd Snubber OFD-122A-2.1 2-01A-H8A 01A 0-1481A Hyd Snubber OFD-122A-2.1 2-01A-H8B 01A 0-1481A OFD-122A-2.1 0FD-122A-2.1	ER ID NUMBER SYS ISO/DWG NUMBERS PROC 2-50-H10 50 0-1480A QAL-14 Hyd Snubber OFD-100A-2.2 2-50-H11 50 0-1480A QAL-14 Hyd Snubber OFD-100A-2.2 2-50-H8 50 0-1480A QAL-14 Hyd Snubber OFD-100A-2.2 2-50-H9 50 0-1480A QAL-14 Hyd Snubber OFD-100A-2.2 2-01A-H2A 01A 0-1481A QAL-14 Hyd Snubber OFD-122A-2.1 2-01A-H2B 01A 0-1481B QAL-14 Hyd Snubber OFD-122A-2.1 2-01A-H8A 01A 0-1481A QAL-14 12-01A-H8B 01A 0-1481A QAL-14 12-01A-H8B 01A 0-1481A QAL-14 12-01A-H8B 01A 0-1481A QAL-14 2-01A-H8B 01A 0-1481A QAL-14	ER ID NUMBER SYS ISO/DWG NUMBERS PROC INSP REQ 2-50-H10 50 0-1480A OFD-100A-2.2 2-50-H11 50 0-1480A QAL-14 VT-3 Hyd Snubber OFD-100A-2.2 2-50-H8 50 0-1480A QAL-14 VT-3 Hyd Snubber OFD-100A-2.2 2-50-H9 50 0-1480A QAL-14 VT-3 Hyd Snubber OFD-100A-2.2 2-50-H9 50 0-1480A QAL-14 VT-3 Hyd Snubber OFD-100A-2.2 2-01A-H2A 01A 0-1481A QAL-14 VT-3 Hyd Snubber OFD-122A-2.1 2-01A-H2B 01A 0-1481B QAL-14 VT-3 4-01A-H2B OFD-122A-2.1 2-01A-H8A 01A 0-1481A QAL-14 VT-3 2-01A-H8B 01A 0-1481A QAL-14 VT-3 2-50-H1 50 0-1481A QAL-14 VT-3	Inservice Inspection Plan for Intervice Inservice Inspection Plan for Intervice Inservice Inse	2-50-H10 Hyd Snubber 50 0-1480A OFD-100A-2.2 QAL-14 VT-3 NA 2.500 0.000 2-50-H11 Hyd Snubber 50 0-1480A OFD-100A-2.2 QAL-14 VT-3 NA 2.500 0.000 2-50-H8 Hyd Snubber 0FD-100A-2.2 QAL-14 VT-3 NA 2.500 0.000 2-50-H8 Hyd Snubber 0FD-100A-2.2 QAL-14 VT-3 NA 2.500 0.000 2-50-H9 Hyd Snubber 0FD-100A-2.2 QAL-14 VT-3 NA 2.500 0.000 2-50-H9 Hyd Snubber 0FD-100A-2.2 QAL-14 VT-3 NA 2.500 0.000 2-01A-H2A Hyd Snubber 0FD-122A-2.1 QAL-14 VT-3 NA 24.000 0.322 2-01A-H2B Hyd Snubber 0FD-122A-2.1 QAL-14 VT-3 NA 24.000 0.322 2-01A-H8A Hyd Snubber 0FD-122A-2.1 QAL-14 VT-3 NA 24.000 0.322 2-01A-H8B Hyd Snubber 0FD-122A-2.1 QAL-14 VT-3 NA 24.000 0.322 2-01A-H8B Hyd Snubber 0FD-122A-2.1 QAL-14 VT-3 NA 24.000 0.322 2-01A-H8B Hyd Snubber 0FD-122A-2.1 QAL-14 VT-3 NA 24.000 0.322	

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

				maci vice ma	pection Data	base wanagei	ment System	Plan Repor	
Spring S	Supports & Constant	Load	Supports		Ocon		Page 57		
				Inservice I	Inspection P	lan for Inter	val 3 Outage 3	02/02/2000	
ITEM NUMB		SY	S ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS	
F01.050.027 Class A	2-50-H3 Hyd Snubber	50	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	2.500 0.154	FILE NO. OSC-1324-06 SHT.1 OF 2 PROBLEM NO.2-53-14 PZR SPRAY SYSTEM.	
F01.050.028 Class A	2-50-H7 Hyd Snubber	50	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	2.500 0.500	FILE NO. OSC-1324-06 SHT.10F2 PROBLEM NO.2-53-14 PZR SPRAY SYSTEM	
F01.050.029 Class B	2-57-H15 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	
F01.050.030 Class B	2-57-H16 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM.	
F01.050.031 Class B	2-57-H17 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	
F01.050.032 Class B	2-57-H20 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	
F01.050.033 Class B	2-57-H21 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	
F01.050.034 Class B	2-57-H23 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	
F01.050.035 Class B	2-57-H25 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	

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

Spring Supports & Constant Load Supports

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				Inservice I	nspection P	lan for Inte	erval 3 Outage 3	02/02/200	
ITEM NUMB		SYS	S ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS	
F01.050.036 Class B	2-57-H7 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM.	
F01.050.037 Class B	2-57-H9 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	8.000 0.216	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM	
F01.050.038 Class A	2-57-RJP-H0801 Hyd Snubber	57	0-1481A OFD-100A-2.2	QAL-14	VT-3	NA	4.000 0.000	FILE NO. OSC-1332-06 PAGE 14.1 PROBLEM NO.2-57-01 PZR RELIEF VLV SYSTEM.	
F01.050.039 Class A	2-50-H1A Hyd Snubber	50	0-1479A OFD-100A-2.1 0-2491B-2A	QAL-14	VT-3	NA	10.000 0.000	PZR Surge Line.	
F01.050.040 Class A	2-50-H2A Hyd Snubber	50	0-1479A OFD-100A-2.1 0-2491B-2A	QAL-14	VT-3	NA	10.000 0.000	PZR Surge Line.	
F01.050.041 Class A	2-50-H3A Hyd Snubber	50	0-1479A OFD-100A-2.1 0-2491B-2A	QAL-14	VT-3	NA	10.000 0.000	PZR Surge Line.	
F01.050.042 Class C	2-03A-SR102 Hyd Snubber	03A	1-0-1400A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.000	File Number = OSC-450, Page No. 106; Problem Number = 2-03A-09; EFW Crossover	
F01.050.043	2-03A-SR103 Hyd Snubber	03A	1-0-1400A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.000	File Number = OSC-451, Page No. 85; Problem Number = 2-03A-10; Sys 03A	
F01.050.044 Class C	2-03A-SR104 Hyd Snubber	03A	1-0-1400A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.000	File Number = OSC-451, Page No. 84A; Problem Number = 2-03A-10; Sys 03A	

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

Spring Supports & Constant Load Supports

Oconee 2

			Inservice	Inspection P	lan for int	erval 3 Outage 3	02/02/2000		
ITEM NUMB	SER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS		
F01.050.045 Class C	2-03A-SR100 Hyd Snubber	03A 1-0-1400B OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.203	File Number = OSC-449; Problem Number = 2-03A-08, Sht. 5 of 6; Emergency Feedwater Bypass Line.		
F01.050.046 Class C	2-03A-SR101PO Hyd Snubber	03A 1-0-1401B OFD-121D-2.1	QAL-14	VŢ-3	NA	6.000 0.000	File Number = OSC-449; Problem Number = 2-03A-08, Sht. 4 of 6; Emergency Feedwater Bypass Line.		
F01.050.047 Class B	2-51A-SR150 Hyd Snubber	51A 1-0-1444 OFD-101A-2.4	QAL-14	VT-3	NA	4.000 0.000	FILE NO. OSC-1023 PAGE 52.1 PROBLEM NO.2-51-18 HPI SYSTEM CROSSOVER LINE		
F01.050.049 Class B	2-01A-H43 Hyd Snubber	01A 1-1-0-1401B OFD-122A-2.2	QAL-14	VT-3	NA	12.000 0.000	FILE NO. OSC-442 PROBLEM NO. 2-01-02 SHT2OF5 MAIN STEAM BYPASS TO CONDENSER		
F01.050.050 Class B	2-01A-H44 Hyd Snubber	01A 1-1-0-1401B OFD-122A-2.2	QAL-14	VT-3	NA	12.000 0.000	FILE NO. OSC-442 PROBLEM NO. 2-01-02 SHT2OF5 MAIN STEAM BYPASS TO CONDENSER		
F01.050.051 Class B	2-53B-SR100 Hyd Snubber	53B 2-0-435B OFD-102A-2.1	QAL-14	VT-3	NA	14.000 0.000	FILE NO. OS-487, PROBLEM NO. 2-53-01, SHT 1 OF 5. LPI TO DECAY HEAT REMOVAL SYSTEM 53B.		
F01.050.052 Class B	2-53B-SR1000 Hyd Snubber	53B 2-0-436E OFD-102A-2.1	QAL-14	VT-3	NA	14.000 0.000	FILE NO. OSC-481, PROBLEM NO. 51-2, SHT 4 OF 6. HPI PUMP SUCT. HEADER W/BRANCHES FROM B.W.S. TANK, L.S. TANK AND L.P. COOLERS "2A" & "2B".		
F01.050.053 Class B	2-01A-R7 Hyd Snubber	01A 3-0-1401B OFD-122A-2.1	QAL-14	VT-3	NA	12.000 0.000	FILE NO. OSC-443 PROBLEM NO. 2-01-04 PAGE 23 MAIN STEAM PIPING.		
F01.050.054 Class B	2-54A-R16 Hyd Snubber	54A 3-0-1439A OFD-103A-2.1	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OS-496, PROBLEM NO. 2-54-03, SHT 2 OF 2. SYSTEM 54A.		

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

Spring Supports 8	& Constant	Load:	Supports

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S P T T S	epporto a constant	Load oupports		00011	CC 2		Page 60
			Inservice	Inspection P	lan for Interval 3	02/02/2000	
ITEM NUMB		SYS ISO/DWG NUMBERS	PROC	INSP REQ			COMMENTS
F01.050.055 Class B	2-54A-R101 Hyd Snubber	54A 3-0-435B OFD-103A-2.1	QAL-14	VT-3	NA 8.0	000 000	FILE NO. OS-494, PROBLEM NO. 2-54-1, SHT 1 OF 1. REACTOR BUILDING SPRAY LINE "2A".
F01.050.056 Class B	2-54A-R2B Hyd Snubber	54A 3-0-435B OFD-103A-2.1	QAL-14	VT-3		000	FILE NO. OS-495, PROBLEM NO. 2-54-02, SHT 1 OF 1. REACTOR BUILDING SPRAY LINE "2B".
F01.050.057	2-01A-R17 Hyd Snubber	01A 4-0-1403D OFD-122A-2.4	QAL-14	VT-3		000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.
F01.050.058	2-01A-R18 Hyd Snubber	01A 4-0-1403D OFD-122A-2.4	QAL-14	VT-3		000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.
F01.050.059	2-01A-R21 Hyd Snubber	01A 4-0-1403D OFD-122A-2.4	QAL-14	VT-3		000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.
F01.050.060 Class C	2-01A-R22 Hyd Snubber	01A 4-0-1403D OFD-122A-2.4	QAL-14	VT-3		000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.
F01.050.061	2-01A-R6 Hyd Snubber	01A 4-1-0-1403D OFD-122A-2.4	QAL-14	VT-3		000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.
F01.050.062 Class C	2-01A-R2 Hyd Snubber	01A 4-2-0-1403C OFD-122A-2.4	QAL-14	VT-3	NA 6.0 0.0		FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 2 OF 4.
F01.050.063 Class B	2-53B-SR1000 Hyd Snubber	53B 5-0-435B OFD-102A-2.2	QAL-14	VT-3	NA 10.0 0.0		FILE NO. OS-493, PROBLEM NO. 2-53-2, SHT 1 OF 4. FROM L. P. PUMPS "2A" & "2C" TO R. B. & BORATED WATER STORAGE TANK SYSTEM "53A" & "53B".

Class B

CATEGORY F-A, Supports

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

_				IIISCI VICE IIIS	spection Data	Dase IVIA	nagement System	Plan Report
Spring	Supports & Constant	Load	Supports		Ocon	ee 2		Page 61
				Inservice	Inspection F	lan for	Interval 3 Outage 3	02/02/2000
ITEM NUME	BER ID NUMBER	SY	S ISO/DWG NUMBERS	PROC	INSP REQ		SCH DIA/THK CAL BLOCKS	COMMENTS
F01.050.064 Class C	2-13-SR1 Hyd Snubber	13	7-0-1400A OFD-133A-2.2	QAL-14	VT-3	NA	12.000 0.000	File Number = OS-471;Problem Number = 13-7, Sht. 1of 1; Emergengy Cooling Water Discharge
F01.050.065	2-13-SR4 Hyd Snubber	13	7-0-1400B OFD-133A-2.2	QAL-14	VT-3	NA	30.000 0.000	File Number = OS-471;Problem Number = 13-7, SHt. 1of 1; Emergengy Cooling Water Discharge
F01.050.066 Class C	2-07A-DE039 Mech Snubber	07A	0-1400A OFD-121A-2.7	QAL-14	VT-3	NA	24.000 0.000	FILE NO. OSC-467, PROBLEM NO. 2-07-01, PG 108. UPPER SURGE TANK TO CONDENSER SYSTEM 07A.
F01.050.067 Class C	2-03-R13 Mech Snubber	03	0-1401A OFD-121B-2.3	QAL-14	VT-3	NA	24.000 0.000	FILE NO. OS-454, PROBLEM NO. 2-03-01, PG 44.
F01.050.068 Class C	2-03A-DE034 Mech Snubber	03A	0-1401A OFD-121B-2.3	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-447, PROBLEM NO. 2-03A-05, SHT 4 OF 7.
F01.050.069	2-03A-H4088 Mech Snubber	03A	0-1401A OFD-121D-2.1	QAL-14	VT-3	NA	6.000	File Number = OS-459; Problem Number = 2-03A-06 Sht. 1 of 4; Emergency Feedwater
F01.050.070 Class B	2-01A-R11 Mech Snubber	01A	0-1401B OFD-122A-2.1	QAL-14	VT-3	NA	36.000 0.000	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING
F01.050.071 Class B	2-01A-R4 Mech Snubber	01A	0-1401B OFD-122A-2.1	QAL-14	VT-3	NA	36.000 0.000	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING
F01.050.072	2-01A-R6 Mech Snubber	01A	0-1401B OFD-122A-2.1	QAL-14	VT-3	NA	36.000 1.000	FILE NO. OSC-440 PROBLEM NO. 2-01-01 PAGE 40

MAIN STEAM PIPING.

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

Spring Supports & Constant Load Supports

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			Inservice	Inspection F	Plan for in	terval 3 Outage 3	02/02/2000	
ITEM NUMB		SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SC	H DIA/THK CAL BLOCKS	COMMENTS	
F01.050.073	2-01A-DE076 Mech Snubber	01A 0-1403D OFD-122A-2.4	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.	
Class C								
F01.050.074	2-01A-DE077	01A 0-1403D	QAL-14	VT-3	NA	6.000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 2	
Class C	Mech Snubber	OFD-122A-2.4				0.000	OF 4.	
F01.050.075	2-51A-H184	51A 0-1439A	QAL-14	VT-3	NA	4.000	FILE NO. OSC-1023 PAGE 48.1 PROBLEM	
Class B	Mech Snubber	OFD-101A-2.4				0.000	NO.2-51-18 HPI SYSTEM CROSSOVER LINE	
F01.050.076	2-51A-H167	51A 0-1439C	QAL-14	VT-3	NA	4.000	FILE NO. OSC-1023 PAGE 47.1 PROBLEM	
Class B	Mech Snubber	OFD-101A-2.4				0.000	NO.2-51-18 HPI SYSTEM CROSSOVER LINE	
F01.050.077	2-01A-DE060	01A 0-1441	QAL-14	VT-3	NA	36.000	FILE NO. OSC-440	
Class B	Mech Snubber	OFD-122A-2.1				0.000	PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
F01.050.078	2-01A-DE061	01A 0-1441	QAL-14	VT-3	NA	36.000	FILE NO. OSC-440	
Class B	Mech Snubber	OFD-122A-2.1				0.000	PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
F01.050.079	2-01A-R7	01A 0-1441	QAL-14	VT-3	NA	36.000	FILE NO. OSC-440	
Class B	Hyd Snubber	OFD-122A-2.1				1.000	PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING.	
F01.050.080	2-01A-R9-1	01A 0-1441	QAL-14	VT-3	NA	36.000	FILE NO. OSC-440	
Class B	Hyd Snubber	OFD-122A-2.1				0.688	PROBLEM NO. 2-01-01 PAGE 40 MAIN STEAM PIPING	
F01.050.081	2-03A-NPS-H28	03A 0-1478A	QAL-14	VT-3	NA	3.000	FILE NO. OSC-1224-17, PROBLEM NO. 2-03A-13,	
Class C	Mech Snubber	OFD-121B-2.5				0.000	SHT 4 OF 5.	

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

					_	ement System	Plan Report	
Spring S	Supports & Constant	<u>Load</u>	<u>Supports</u>		Ocor			Page 63
							erval 3 Outage 3	02/02/2000
ITEM NUMB			S ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS
F01.050.082 Class B	2-03-H6103 Mech Snubber	03	0-1480A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.000	File Number = OSC-1224-17, Page No. 50.1; Problem Number = 2-03A-13; Aux Service Water Piping
F01.050.083 Class C	2-03A-H3A Mech Snubber	03A	0-1480A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.237	File Number = OSC-1224-17, Page No. 50.1; Problem Number = 2-03A-13; Aux Service Water Piping.
F01.050.084 Class C	2-57-NWIZ Mech Snubber	57	0-1480A OFD-107A-2.1	QAL-14	VT-3	NA	12.000 0.000	FILE NO. OSC-1332-06, PROBLEM NO. 2-57-01, PG 14.1.
F01.050.086 Class C	2-03A-H121 Mech Snubber	03A	1-0-1400A OFD-121D-2.1	QAL-14	VT-3	NA	6.000 0.000	File Number = OSC-1213; Problem Number = 2-03A-12, Sht. 1 of 2; Aux Feedwater Discharge Sys.
F01.050.087 Class B	2-53B-DE063 Mech Snubber	53B	1-0-1436A OFD-102A-2.2	QAL-14	VT-3	NA	10.000 0.000	FILE NO. OS-493, PROBLEM NO. 2-53-2, SHT 2 OF 4. FROM L. P. PUMPS "2A" & "2C" TO R. B. & BORATED WATER STORAGE TANK SYSTEM "53A" & "53B".
F01.050.088 Class B	2-53B-DE068 Mech Snubber	53B	1-0-1439C OFD-102A-2.2	QAL-14	VT-3	NA	10.000 0.000	FILE NO. OS-493, PROBLEM NO. 2-53-2, SHT 3 OF 4. FROM L. P. PUMPS "2A" & "2C" TO R. B. & BORATED WATER STORAGE TANK SYSTEM "53A" & "53B".
F01.050.089 Class B	2-53B-DE060 Mech Snubber	53B	1-0-435B OFD-102A-2.2	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OS-493, PROBLEM NO. 2-53-2, SHT 1 OF 4. FROM L. P. PUMPS "2A" & "2C" TO R. B. & BORATED WATER STORAGE TANK SYSTEM "53A" & "53B".
F01.050.090 Class B	2-53B-DE070 Mech Snubber	53B	1-0-438C OFD-102A-2.1	QAL-14	VT-3	NA	8.000 0.000	FILE NO. OS-493, PROBLEM NO. 2-53-2, SHT 3 OF 4. FROM L. P. PUMPS "2A" & "2C" TO R. B. & BORATED WATER STORAGE TANK SYSTEM "53A" & "53B".
F01.050.091 Class B	2-53B-DE056 Mech Snubber	53B	2-0-436E OFD-102A-2.1	QAL-14	VT-3	NA	14.000 0.000	FILE NO. OSC-481, PROBLEM NO. 51-2, SHT 4 OF 6. HPI PUMP SUCT. HEADER W/BRANCHES FROM B.W.S. TANK, L.S. TANK AND L.P. COOLERS "2A" & "2B".

Class A

OFD-100A-2.3

CATEGORY F-A, Supports

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

			inservice ins	spection Data	base Mana	agement System	Plan Report	
Spring S	Supports & Constant L	oad Supports		Ocon	ee 2		Page 64	
			Inservice	Inspection P	lan for In	nterval 3 Outage 3	02/02/2000	
ITEM NUMB	BER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ		CH DIA/THK CAL BLOCKS	COMMENTS	
F01.050.092 Class C	2-01A-R19 Mech Snubber	01A 4-0-1403D OFD-122A-2.4	QAL-14	VT-3	NA	6.000 0.000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 1 OF 4. STEAM SUPPLY TO EFWP.	
F01.050.093		01A 4-2-0-1400A	QAL-14	VT-3	NA	6.000	FILE NO. OSC-445, PROBLEM NO. 2-01-6, SHT 2	
Class C	Mech Snubber	OFD-122A-2.4				0.237	OF 4.	
F01.050.094 Class B	2-53B-DE057 Mech Snubber	53B 5-0-435B OFD-102A-2.2	QAL-14	VT-3	NA	10.000 0.000	FILE NO. OS-487, PROBLEM NO. 2-53-01, SHT 3 OF 5. L. P. INJECTION & DECAY HEAT REMOVAL SYSTEM 53B.	
F01.050.095 Class C	2-07A-H60 Mech Snubber	07A 6-0-1400A OFD-121A-2.8	QAL-14	VT-3	NA	20.000 0.000	FILE NO. OSC-467, PROBLEM NO. 2-07-1 SHTS. 1 OF 6, 2 OF 6, & 3 OF 6. CONDENSATE SYSTEM.	
F01.050.096	2-07A-H61 Mech Snubber	07A 6-0-1400A OFD-121A-2.8	QAL-14	VT-3	NA	20.000 0.000	FILE NO. OSC-467, PROBLEM NO. 2-07-1 SHTS. 1 OF 6, 2 OF 6, & 3 OF 6. CONDENSATE SYSTEM.	
F01.050.097	2-07A-H62 Mech Snubber	07A 6-0-1400A OFD-121A-2.8	QAL-14	VT-3	NA	24.000 0.000	FILE NO. OSC-467, PROBLEM NO. 2-07-1 SHTS. 1 OF 6, 2 OF 6, & 3 OF 6. CONDENSATE SYSTEM.	
F01.050.098 Class A	2-50-RCPM-2A1-SS1 Hyd Snubber	50 0-1066A OFD-100A-2.1 OFD-100A-2.3	QAL-14	VT-3	NA	6.000 0.000	File No. OSC-0991-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-096-1575. Inspect with F01.012.009.	
F01.050.099 Class A	2-50-RCPM-2A1-SS2 Hyd Snubber	50 0-1066A OFD-100A-2.1 OFD-100A-2.3	QAL-14	VT-3	NA	6.000 0.000	File No. OSC-0991-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-096-1575	
F01.050.100	2-50-RCPM-2A1-SS3 Hyd Snubber	50 0-1066A OFD-100A-2.1	QAL-14	VT-3	NA	6.000 0.000	File No. OSC-0991-01-0001, Reactor Coolant Pump Motor Snubbers. Reference PIP 0-096-1575	

CATEGORY F-A, Supports

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

Spring Supports & Constant Load Supports

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02/02/2000	
02/02/2000	
1, Reactor Coolant Pump	
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CATEGORY F-A, Supports

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

Spring Supports & Constant Load Supports

ID NUMBER

Oconee 2

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Inservice Inspection Plan for Interval 3 Outage 3 PROC

INSP REQ MAT/SCH DIA/THK CAL BLOCKS COMMENTS

Total F01.050 Items:

107

SYS ISO/DWG NUMBERS

Total F01 Items:

ITEM NUMBER

146

CATEGORY AUG, Augmented Inspections

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

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Oconee 2

	Inservice Inspection Plan for Interval 3 Outage 3							02/02/2000
ITEM NUMB	ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK CAL	BLOCKS	COMMENTS
G04.001.007 Class A	2HP-218-18 Circumferential	51A 2HP-218 OFD-101A-2.4	NDE-600	UT Elbow t Pipe	SS o	2.500 0.375	TBD	Inspect 100% of weld &1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan - Volume 1. This weld was listed previously as 2-51A-27-73 untiliso 2-51A-27 (2) was redrawn.
G04.001.010 Class A	2HP-214-13 Circumferential	51A 2HP-214 OFD-101A-2.4	NDE-600	UT Pipe to Elbow	SS	2.500 0.375	TBD	Inspect 100% of weld &1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan - Volume 1. This weld was listed previously as 2-51A-27-108
G04.001.011 Class A	2HP-214-15 Circumferential	51A 2HP-214 OFD-101A-2.4	NDE-600	UT Pipe to Valve 2	SS 1 P-488	2.500 0.375		until iso 2-51A-27 (3) was redrawn. Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan - Volume 1. This weld was originally 2-51A-27-110 until it was
G04.001.017 Class A	2HP-214-14 Circumferential	51A 2HP-214 OFD-101A-2.4	NDE-600	UT Elbow to	SS	2.500 0.375		cut out during outage 15 and remade as 2HP-214-15 also during outage 15. Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan.
G04.001.018	2HP-216-7	51A 2HP-216	NDE-600	Pipe	00	0.500		This weld was listed previously as 2-51A-27-109 until iso 2-51A-27 (3) was redrawn.
	Circumferential	OFD-101A-2.4	NDE-000	UT SS Pipe to Elbow		2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan. This weld was listed previously as 2-51A-30-51 unti iso 2-51A-30 was redrawn.
G04.001.019 Class A	2HP-216-8 Circumferential	51A 2HP-216 OFD-101A-2.4	NDE-600	UT Elbow to Pipe	SS	2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan. This weld was listed previously as 2-51A-30-52 untiliso 2-51A-30 was redrawn.
G04.001.020 Class A	2HP-216-9 Circumferential	51A 2HP-216 OFD-101A-2.4	NDE-600	UT Pipe to Valve 2F	SS IP-486	2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 Paragraph 7.1.4 of ISI Plan. This weld was originally 2-51A-30-54 until it was cut out and remade as 2HP-216-9.

CATEGORY AUG, Augmented Inspections

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

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Total G04 Items:

13

Oconee 2

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			Inservice I	nspection P	Plan for Inte	rval 3 Outage 3	02/02/2000
ITEM NUMBI		SYS ISO/DWG NUMBERS	PROC	INSP REQ		DIA/THK CAL BLOCKS	COMMENTS
G04.001.021	2HP-217-10	51A 2HP-217	NDE-600	UT	SS	2.500	Inspect 100% of weld & 1" of base material (axial &
Class A	Circumferential	OFD-101A-2.4		Dina ta		0.375	circumferential). Reference Section 7 Paragraph
Class A				Pipe to Elbow			7.1.4 of ISI Plan. This weld was listed previously as 2-51A-30-28 until
				LIDOW			iso 2-51A-30 was redrawn.
G04.001.022	2HP-217-11	51A 2HP-217	NDE-600	UT	SS	2.500	Inspect 100% of weld & 1" of base material (axial &
	Circumferential	OFD-101A-2.4				0.375	circumferential). Reference Section 7 Paragraph
Class A				Elbow t	to		7.1.4 of ISI Plan.
				Pipe			This weld was listed previously as 2-51A-30-29 until iso 2-51A-30 was redrawn.
G04.001.023	2HP-217-12	51A 2HP-217	NDE-600	UT	SS	2.500	Inspect 100% of weld & 1" of base material (axial &
	Circumferential	OFD-101A-2.4				0.375	circumferential). Reference Section 7 Paragraph
Class A				Pipe to			7.1.4 of ISI Plan.
			Valve 2HP-487				This weld was originally 2-51A-30-31 until it was cut out and remade as 2HP-217-12.
G04.001.024	2HP-218-20	51A 2HP-218	NDE-600	UT	SS	2.500	Inspect 100% of weld & 1" of base material (axial &
	Circumferential	OFD-101A-2.4				0.375	circumferential). Reference Section 7 Paragraph
Class A				Pipe to			7.1.4 of ISI Plan.
				Elbow			This weld was listed previously as 2-51A-27-79 until iso 2-51A-27 (2) was redrawn.
G04.001.025	2HP-218-21	51A 2HP-218	NDE-600	UT	SS	2.500	Inspect 100% of weld & 1" of base material (axial &
	Circumferential	OFD-101A-2.4				0.375	circumferential). Reference Section 7 Paragraph
Class A				Elbow to	0		7.1.4 of ISI Plan.
				Pipe			This weld was listed previously as 2-51A-27-80 until iso 2-51A-27 (2) was redrawn.
G04.001.026	2HP-218-22	51A 2HP-218	NDE-600	UT	SS	2.500	Inspect 100% of weld & 1" of base material (axial &
	Circumferential	OFD-101A-2.4				0.375	circumferential). Reference Section 7 Paragraph
Class A				Pipe to			7.1.4 of ISI Plan.
				Valve 2	HP-489		
Total G04.0	001 Items: 13						
		_					

CATEGORY AUG, Augmented Inspections

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

Circumferential Pipe Welds With A Nom. Wall

Oconee 2

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Thk. < 3/8" and > NPS 4"			02/02/2000				
ITEM NUMB	ER ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ		erval 3 Outage 3 DIA/THK CAL BLOCKS	COMMENTS
G09.001.001	2LPS-603-2	14B 2LPS-603	NDE-25	MT	CS	8.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-124B-2.2				0.322	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B				Pipe to			Volume 1.
				Elbow			This weld was listed previously as 2-14B-250-2 until iso 2-14B-250 was redrawn.
G09.001.012	2-53B-19-58	53B 2-53B-19(3)	NDE-35	PT	SS	10.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-102A-2.2				0.250	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B				Pipe to			Volume 1.
				Valve 2l	_P-10		
G09.001.024	2-53B-28-44	53B 2-53B-28(2)	NDE-35	PT	SS	6.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-102A-2.2				0.134	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B				Elbow t	0		Volume 1.
	-			Reduce	Г		
G09.001.031	2-53B-31-5	53B 2-53B-31(4)	NDE-35	PT	SS	10.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-102A-2.2				0.165	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B			Pipe to				Volume 1.
				Elbow			
G09.001.037	2-54A-8-2	54A 2-54A-8 (1)	NDE-35	PT	SS	8.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-103A-2.1				0.250	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B				Elbow to	0		Volume 1.
				Pipe			
G09.001.038	2-54A-8-9	54A 2-54A-8 (1)	NDE-35	PT	SS	8.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-103A-2.1				0.250	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B				Pipe to			Volume 1.
				Elbow			
G09.001.039	2-54A-8-13	54A 2-54A-8 (1)	NDE-35	PT	SS	8.000	Non-Legitimate Weld in Inspection Category C-F-1.
	Circumferential	OFD-103A-2.1				0.250	Reference Section 7, Paragraph 7.1.9 in ISI Plan -
Class B				Pipe to			Volume 1.
				Elbow			

Total G09.001 Items:

7

Total G09 Items:

7

Total G10 Items:

CATEGORY AUG, Augmented Inspections

2

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

Class 1 RTE Mounting Bosses

Oconee 2

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02/02/2000	Inservice Inspection Plan for Interval 3 Outage 3								
	COMMENTS	IA/THK CAL BLOCKS	MAT/SCH DI	INSP REQ	PROC	S ISO/DWG NUMBERS	NUMBER SY	ER ID NUMBE	ITEM NUMBE
ion 7. December 7.4.40 in 101 Disc.	Poforonoo Socii	8.750	CS-Inconel	PT	NDE-35	ISI-OCN2-009	50	2-PIB1-12	G10.001.009
ion 7, Paragraph 7.1.10 in ISI Plan liameter of hole that penetrates the		2.250	CO-mconer	• •	1402 00	OM-1201-1521		Circumferential	(
2B1 Suction Piping = .613.		Nozzle RTE Mount, Boss Pc. 58 to				· · · · · · · · · · · · · · · · · · ·		Class A	
. 0			56	Pipe Pc.				Dissimilar	I
ion 7, Paragraph 7.1.10 in ISI Plan	Reference Section	8.750	CS-Inconel	PT	NDE-35	ISI-OCN2-010	50	2-PIB2-12	G10.001.010
liameter of hole that penetrates the	Volume 1. The di	2.250				OM-1201-1521	al	Circumferential	(
2B2 Suction Piping = .613.		ss Pc. 58 to	TE Mount. Bos	Nozzle F			Class A		
			56	Pipe Pc.				Dissimilar	1

CATEGORY AUG, Augmented Inspections

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

HPI System Upgrade

Oconee 2

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	02/02/2000						
ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/S0	CH DIA/THK CAL BLOCKS	COMMENTS
	2-51B-18-79	51B 2-51B-18	NDE-35	PT	SS	3.000	Non-Legitimate Weld in Inspection Category C-F-1.
Class B	rcumferential	OFD-101A-2.2			0.120 Elbow to Valve 2LWD-223		Reference Section 7, Paragraph 7.1.12 in ISI Plan - Volume 1.
	2-51B-22-32 51B 2-51B-22 cumferential OFD-101A-2.2	NDE-35	PT	SS	3.000 0.120	Non-Legitimate Weld in Inspection Category C-F-1. Reference Section 7, Paragraph 7.1.12 in ISI Plan -	
Class B				Elbow t Pipe	0		Volume 1.
	2-51B-25-83 rcumferential	51B 2-51B-25 OFD-101A-2.1	NDE-35	PT	SS	4.000 0.120	Non-Legitimate Weld in Inspection Category C-F-1. Reference Section 7, Paragraph 7.1.12 in ISI Plan -
Class B				Pipe to Valve 2l			Volume 1.

Total G12.001 Items:

3

5.0 Results Of Inspections Performed

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

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

Item Number = ASME Section XI Tables IWB-2500-1

(Class 1), IWC-2500-1 (Class 2), IWF-

2500-1 (Class 1 and Class 2), Augmented Requirements

ID Number = Unique Identification Number

System = System examined

Insp Date = Date of Examination

Insp Status = CLR Clear

REC Recordable

REP Reportable

Insp Limited = Indicates inspection was limited.

Coverage obtained is listed

Geo. Ref. =

(Geometric Reflector applies only to UT)

∍ <u>Υ</u> Yes

<u>N</u> No

RFR = Request for Relief Required

Comments = General and/or Detail Description

DUKE ENERGY \ .PORATION QUALITY ASSURANCE TECHNICAL SERVICES In-Service Inspection Database Management System
Oconee 2 Inservice Inspection Listing
Interval 3 Outage 3

EOC 17 Plant: Oconee 2

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		02/02/2000						
ITEM NUMBER	ID NUMBER		INSP DATE	INSP STATU	IS INSPILIMITED	GEO REF	RFR	COMMENTS
B02.040.001	2-SGA-WG58-1	50	11/29/1999	REC		N	N	This was a surveillance inspection. Indication # 1-45 degrees did
								not show any growth of the indication or significant changes in the data recorded from the previous inspection.
B02.040.002	2-SGA-WG58-2	50	11/11/1999	CLR		N	N	the data recorded from the previous inspection.
B03.110.002	2-PZR-WP34	50	12/02/1999	CLR	36.00%	N	Y	Request for Relief # 00-01
B03.110.003	2-PZR-WP33-3	50	12/02/1999	CLR	37.10%	N	Y	Request for Relief # 00-01
B03.110.004	2-PZR-WP33-2	50	12/02/1999	CLR	37.10%	N	Y	Request for Relief # 00-01
B03.110.005	2-PZR-WP33-1	50	12/02/1999	CLR	37.10%	N	Y	Request for Relief # 00-01
B03.120.002	2-PZR-WP34	50	12/02/1999	CLR		N	N	A sequence of the month of the
B03.120.003	2-PZR-WP33-3	50	12/02/1999	CLR	91.70%	N	N	
B03.120.004	2-PZR-WP33-2	50	12/02/1999	CLR	91.70%	N	N	
B03.120.005	2-PZR-WP33-1	50	12/02/1999	CLR	91.70%	N	N	
B03.130.001	2-SGA-WG50-2	50	11/15/1999	CLR	54.77%	N	Υ	Request for Relief # 95-04
B03.130.002	2-SGA-WG50-1	50	11/15/1999	CLR	54.77%	N	Υ	Request for Relief # 95-04
B03.130.006	2-SGB-WG25	50	12/02/1999	CLR	58.00%	N	Υ	Request for Relief # 00-01
B03.140.001	2-SGA-WG50-2	50	11/15/1999	CLR	46.15%	N	Υ	Request for Relief # 95-04
B03.140.002	2-SGA-WG50-1	50	11/15/1999	CLR	46.15%	N	Υ	Request for Relief # 95-04
B03.140.006	2-SGB-WG25	50	12/02/1999	CLR	70.21%	N	Υ	Request for Relief # 00-01
B05.130.008	2-PIA1-7	50	11/10/1999	CLR		N	N	1.04200010111010111100011
B05.130.008A	2-PIA1-7	50	11/10/1999	CLR		N	N	
B05.130.008B	2-PIA1-7	50	11/10/1999	CLR		N	N	
B05.130.010	2-PIB1-7	50	11/12/1999	CLR		N	N	
B05.130.010A	2-PIB1-7	50	11/12/1999	CLR		N	N	
B05.130.010B	2-PIB1-7	50	11/11/1999	CLR		N	N	
B05.130.011	2-PIB2-7	50	11/12/1999	CLR	***	N	N	
B05.130.011A	2-PIB2-7	50	11/12/1999	CLR		N	N-	
B05.130.011B	2-PIB2-7	50	11/12/1999	CLR		N	N	
B05.140.001	2-50-7-14	50	11/09/1999	CLR		N	N	
B05.140.002	2-50-7-29	50	11/09/1999	CLR		N	N	
B05.140.003	2-50-7-8	50	11/11/1999	CLR		N	N	
B05.140.007	2-PDB2-11	50	11/19/1999	CLR		N	N	
B06.010.022	2-RPV-26-204-22	50	11/22/1999	CLR		N	N	
B06.010.023	2-RPV-26-204-23	50	11/22/1999	CLR	***	N	N	
B06.010.024	2-RPV-26-204-24	50	11/16/1999	CLR		N	N	
B06.010.025	2-RPV-26-204-25	50	11/16/1999	CLR		N	N	
B06.010.026	2-RPV-26-204-26	50	11/16/1999	CLR		N	N	
B06.030.022	2-RPV-25-204-22	50	11/22/1999	CLR		N	N	

DUKE ENERGY .PORATION **QUALITY ASSURANCE TECHNICAL SERVICES** In-Service Inspection Database Management System Oconee 2 Inservice Inspection Listing

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ITEM NUMBER	ID NI IMPED		•	In	iterval 3 Outag	je 3	•	Page 2 02/02/2000
B06.030.022A	ID NUMBER	SYSTEM		INSP STATUS	S INSP LIMITED	GEO REF	RFR	COMMENTS
B06.030.023	2-RPV-25-204-22	50	11/22/1999	CLR		N	N	
B06.030.023A	2-RPV-25-204-23	50	11/21/1999	CLR		N	N	
	2-RPV-25-204-23	50	11/22/1999	CLR		N	N	
B06.030.024	2-RPV-25-204-24	50	11/16/1999	CLR		N	N	
B06.030.024A	2-RPV-25-204-24	50	11/16/1999	CLR		N	N	
B06.030.025	2-RPV-25-204-25	50	11/16/1999	CLR	***	N	N	
B06.030.025A	2-RPV-25-204-25	50	11/16/1999	CLR		N	N	
B06.030.026	2-RPV-25-204-26	50	11/16/1999	CLR		N	N	
B06.030.026A	2-RPV-25-204-26	50	11/16/1999	CLR		N	N	
B06.050.001D	2-RPV-WASH-BUSH	50	11/23/1999	CLR		N	N	Woohers 24 OF THE LOS
						"	14	Washers 24, 25, and 26 were inspected by E. Campbell on 11-16-99.
B06.190,003	2-RCP-2B1-FLANGE	50	11/21/1999	REC		N	N.	Washers 22 and 23 were inspected by J.G. Jackson on 11-23-99.
						14	N	Damaged area was looked at by RCP Engineer and was found to
								be acceptable for service. See Work Order 98209430-04 for
B07.020.002	2-PZR-CHB-STUDS	50	11/21/1999	CLR		N	N	Engineering Evaluation.
B07.050.003	2-PZR-RC67-BOLT	50	12/03/1999	CLR		N	N	
B07.050.004	2-PZR-RC68-BOLT	50	12/03/1999	CLR		N	N	
B07.080.001	2-RPV-CRD-BOLTS	50	11/23/1999	CLR		N	N	The Latter of the Control of the Con
B07.080.002	2-RPV-CRD-RINGS					N	IV	The bolting on the following CRD numbers was inspected:4,7,16,32,52,67,43,24,12,17,23,40,64,41,46,50,62,68,44,25,21,10,22,39,63,9,2,6,51, and 8. No apparent service induced damage.
		50	11/23/1999	CLR		N	N	The Housing Rings on the following CRD numbers were inspected:4,7,16,32,52,67,43,24,12,17,23,40,64,41,46,50,62,68,44,25,21,10,22,39,63,9,2,6,51, and 8. No apparent service induced damage.
B09.011.001	2-53A-10-3	53A	11/23/1999	CLR		N	N	mudded damage.
B09.011.001A	2-53A-10-3	53A	11/23/1999	CLR		N	N	
B09.011.007	2-53A-8-43	53A	11/23/1999	REC		Y	N	Indication # 1 was determined to
D00 044 00Th						·	"	Indication # 1 was determined to be heavy root configuration. Indication did not hold up to skew. 60 Deg. RL & 70 Deg. shear produces less than 50% amplitude. Review of past UT data and radiographs support this determined.
B09.011.007A	2-53A-8-43	53A	11/23/1999	CLR		N	N	radiographs support this determination.
B09.011.015	2-53A-9-16	53A	11/23/1999	REC	***	Y	N	Indication # 1-60 degrees is a shear wave relector due to a counterbored area on the pipe side of the weld. Thickness readings in this area show a 0.10" difference 0.3" from the weld centerline. Indication # 2-60 degrees L is a 28 degrees trailing

DUKE ENERGY **QUALITY ASSURANCE TECHNICAL SERVICES** In-Service Inspection Database Management System Oconee 2 Inservice Inspection Listing

Plant: Oconee 2 Interval 3 Outage 3

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				111	tervar 3 Outage	<i>;</i> 3	
ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR
							1
							;
							•
B09.011.015A	2-53A-9-16	53A	11/23/1999	CLR		N	. NI
B09.011.023	2-PIA1-1	50	11/15/1999	CLR		N N	N N
B09.011.023A	2-PIA1-1	50	11/15/1999	CLR		N	N
B09.011.025	2-PIA2-1	50	11/15/1999	CLR		N	N
B09.011.025A	2-PIA2-1	50	11/15/1999	CLR		N	N
B09.011.027	2-PIB1-1	50	12/01/1999	CLR		N	N
B09.011.027A	2-PIB1-1	50	12/01/1999	CLR		N	N
B09.011.031	2-PIB2-8	50	11/30/1999	CLR		N	N
B09.011.031A	2-PIB2-8	50	11/30/1999	CLR		N	N
B09.011.045	2-PSP-3	50	11/16/1999	CLR		N	N
B09.011.045A	2-PSP-3	50	11/15/1999	CLR		N	N
B09.011.046	2-PIB2-3	50	11/11/1999	CLR	****	N	N
B09.011.046A	2-PIB2-3	50	11/11/1999	CLR		N	N
B09.011.047	2-PHA-10	50	11/29/1999	CLR	***	N	N
B09.011.047A	2-PHA-10	50	11/29/1999	CLR		N	N
B09.021.011	2-51A-147-26	51A	11/25/1999	CLR		N	N
B09.021.023	2-51A-30-15	51A	11/26/1999	CLR		N	N
B09.021.029	2-51A-30-40	51A	11/26/1999	CLR		N	N
B09.021.031	2HP-216-8	51A	11/17/1999	CLR		N	N
B09.021.033	2-51A-35-28A	51A	11/29/1999	CLR		N	N
B09.021.034	2-51A-35-33	51A	11/25/1999	CLR		N	N
B09.021.049	2-50-7-30	50	11/09/1999	CLR		N	N
B09.021.051	2-50-7-9	50	11/11/1999	CLR		N	N
B09.021.053	2-PSP-25	50	11/15/1999	CLR		N	N
B09.021.059	2-PSP-14	50	11/15/1999	CLR		N	N
B09.021.062	2-PSP-12	50	11/15/1999	CLR		N	N
B09.021.063	2-PSP-18	50	12/05/1999	CLR		N	N
B09.021.064	2-PSP-21	50	12/05/1999	CLR		N	N
B09.021.065	2-PSP-22	50	11/15/1999	CLR		N	N
B09.040.004	2-50-129-3B	50	12/04/1999	CLR	***	N	N
B09.040.006	2-51A-145-26	51A	11/15/1999	CLR		N	N

shear wave that accompanies the 60 degrees L wave signal reflecting off the counterbore on the pipe side. The 70 degrees shear wave signal used for confirmation was equal to the 60 degrees signal. The WSY -70 produces a CE-2 signal which is continuous 360 degrees and does not move on the baseline. RT film indicates a sharp edge in this area.

COMMENTS

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ITEM NUMBER	ID NUMBER		INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B12.050.005	2-53A-LP47	53A	11/18/1999	CLR		N	N	
B12.050.006	2-53A-LP48	53A	11/19/1999	CLR		N	N	
B14.010.002	2-RPV-CRD-52WH9	50	11/17/1999	CLR		N	Ν	
B14.010.004	2-RPV-CRD-52W60	50	11/17/1999	CLR		N	N	
B14.010.007	2-RPV-CRD-52	50	11/17/1999	CLR		N	N	
B14.010.010	2-RPV-CRD-52W61	50	11/17/1999	CLR		N	N	
C01.030.003	2-LPCB-SH-TUBE		09/08/1999	REC		Y	N	Indication # 1 is a geometric reflector due to weld root configuration. This was verified using a WSY-70 Bimodal. Indication # 2 and # 3 (circ. direction) explained by B&W and proven by drawing to be ID divider plate running full length of vessel. See drawing D-1738-8 rev. 14. B&W drawing # 620-0003
000 040 004	0.004.14/004.147							36-32-002.
C03.010.001	2-SGA-WG84-YZ		11/14/1999	CLR	92.90%	N	N	
C03.010.002	2-SGA-WG84-ZY	•	11/14/1999	CLR	92.90%	N	N	
C03.010.005	2-SGB-WG84-XY		11/11/1999	CLR		N	Ν	
C03.010.006	2-SGB-WG84-YX		11/11/1999	CLR		N	N	
C03.020.012	2-01A-H7B	01A	11/13/1999	CLR	***	N	N	
C03.020.023	2-14B-H12	14B	11/23/1999	CLR		N	N	
C03.020.034	2-14B-H5F	14B	11/23/1999	CLR		N	N	
C03.020.039	2-51A-SR116	51A	11/21/1999	CLR		N	N	
C03.020.043	2-53B-H1	53B	09/09/1999	CLR		N	N	
C03.020.044	2-53B-H14	53B	09/13/1999	CLR		N	N	
C03.020.050	2-53B-R11	53B	09/07/1999	CLR		N	N	
C04.030.001	2-HPI-PUMP-2A	51A	11/24/1999	CLR		N	N	
C04.040.002	2-01A-SV2-STUD	01A	11/23/1999	CLR		N	N	
C05.011.005	2LP-150-17	53A	11/23/1999	REC		Y	N	Indication #1 is a redirected 60 degrees shear wave. Indication #2 is a mode converted shear to L wave caused by the 28 degrees shear striking the counterbore and mode converting to an L wave. The indication is seen concurrently with indication #3 but is plotted separately for clarity. Indication #3 is caused by the 28 degrees trailing shear wave that accompanies the 60 degrees L
C05.011.005A	2LP-150-17	53A	11/23/1999	CLR		N.	.,	wave reflecting off the pipe side counterbore.
C05.021.007	2-51A-130-14	51A	08/31/1999	REC		N	N	
	2 0 // 100 14	JIA	00/31/1999	KEU		Y	N	Indications # 1-60 degrees and 2-60 degrees are reflectors from I.D. counterbore. This was verified using a 70 degrees shear wave (lower amplitude) and review of RT film (for info only).
C05.021.007A	2-51A-130-14	51A	08/31/1999	CLR	***	N	N	to the second second of the min for the only).

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02/02/2000			e 3	nterval 3 Outag	Ir				
	COMMENTS	RFR	GEO REF	S INSP LIMITE	INSP STATU	INSP DATE		ID NUMBER	ITEM NUMBER
		N	N	***	CLR	09/09/1999	51A	2-51A-130-4A	C05.021.008
		N	N		CLR	09/09/1999	51A	2-51A-130-4A	C05.021.008A
		N	N		CLR	08/31/1999	51A	2-51A-131-1	C05.021.009
		N	N		CLR	08/31/1999	51A	2-51A-131-1	C05.021.009A
		N	N		CLR	08/31/1999	51A	2-51A-131-11	C05.021.010
		N	N		CLR	08/31/1999	51A	2-51A-131-11	C05.021.010A
etermined to be a geometric reflector due to This was confirmed by the use of multiple shear, 60 degrees L wave, 70 degrees shear	weld root geometry. T	N	Y		REC	11/23/1999	51A	2-51A-28-15	C05.021.036
		N	N		CLR	11/22/1999	51A	2-51A-28-15	C05.021.036A
		N	N		CLR	11/20/1999	51A	2-51A-28-17	C05.021.037
		N	N		CLR	11/20/1999	51A	2-51A-28-17	C05.021.037A
		N	N		CLR	11/23/1999	51A	2-51A-28-21	C05.021.038
		N	N		CLR	11/20/1999	51A	2-51A-28-21	C05.021.038A
		N	N		CLR	11/20/1999	51A	2-51A-28-23	C05.021.039
		N	N		CLR	11/20/1999	51A	2-51A-28-23	C05.021.039A
		N	N		CLR	09/01/1999	51A	2HP-222-2	C05.021.040
		N	N		CLR	09/01/1999	51A	2HP-222-2	C05.021.040A
		N	N		CLR	09/01/1999	51A	2-51A-28-104	C05.021.041
	•	N	N		CLR	09/01/1999	51A	2-51A-28-104	C05.021.041A
		N	N		CLR	09/13/1999	51A	2-51A-17-93	C05.021.066
		N	N		CLR	09/13/1999	51A	2-51A-17-93	C05.021.066A
		N	N		CLR	11/21/1999	51A	2-51A-17-98EA	C05.021.067
		N	N		CLR	11/21/1999	51A	2-51A-17-98EA	C05.021.067A
		N	N		CLR	11/21/1999	51A	2-51A-17-98EB	C05.021.068
		N	N		CLR	11/21/1999	51A	2-51A-17-98EB	C05.021.068A
		N	N		CLR	09/01/1999	51A	2-51A-28-102	C05.021.069
		N	N		CLR	09/01/1999	51A	2-51A-28-102	C05.021.069A
		N	N		CLR	09/01/1999	51A	2HP-299-72	C05.021.070
		N	N		CLR	09/01/1999	51A	2HP-299-72	C05.021.070A
		N	N	•••	CLR	09/01/1999	51A	2HP-299-75	C05.021.071
		N	N		CLR	09/01/1999	51A	2HP-299-75	C05.021.071A
		N	N		CLR	09/01/1999	51A	2HP-341-77	C05.021.072
		N	N		CLR	09/01/1999	51A	2HP-341-77	C05.021.072A
		N	N		CLR	09/02/1999	51A	2HP-299-76	C05.021.073
		N	N		CLR	09/02/1999	51A	2HP-299-76	C05.021.073A

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C05.021.085	2-51A-27-11	51A	09/13/1999	CLR		N	N	
C05.021.085A	2-51A-27-11	51A	09/08/1999	CLR	***	N	N	
C05.021.091	2-51A-27-34	51A	09/07/1999	CLR		N	N	
C05.021.091A	2-51A-27-34	51A	09/07/1999	CLR		N	N	
C05.021.097	2-51A-28-7	51A	11/20/1999	CLR		N	N	
C05.021.097A	2-51A-28-7	51A	11/20/1999	CLR		N	N	
C05.021.103	2-51A-33-4	51A	11/25/1999	CLR		N	N	
C05.021.103A	2-51A-33-4	51A	11/25/1999	CLR	***	N	N	
C05.030.004	2-51B-23-67	51B	11/21/1999	CLR		N	N	
C05.051.002	2-01A-4-29	01A	11/28/1999	REC		Y	N	Indication # 1 & #2 were determined to be I.D. geometric reflectors due to a heavy weld root configuration. Indication did not hold up to skew. The use of a 70 degrees shear wave produced less than 50% of the amplitude of the 60 degrees shear wave.
C05.051.002A	2-01A-4 - 29	01A	11/28/1999	CLR		N	Ν	
C05.051.004	2-MS1A-B	01A	11/18/1999	REC		Υ	N	Indications # 1 & #2 were confirmed to be I.D. backing ring. This was confirmed by RT film review and 70 degrees shear.
C05.051.004A	2-MS1A-B	01A	11/18/1999	CLR	***	N	N	•
C05.051.011	2-MSB10-E	01A	11/15/1999	REC		Y	N	Indication # 1 plots to be a geometric reflector from the backing ring on the weld joint. This was verified by reviewing RT film and by using a 70 degrees shear wave.
C05.051.011A	2-MSB10-E	01A	11/15/1999	CLR		N	N	
C05.051.031	2-14B-49-136	14B	09/07/1999	CLR		N	N	
C05.051.031A	2-14B-49-136	14B	09/02/1999	CLR		N	N	
C05.051.033	2-14B-50-111	14B	09/07/1999	REC		Y	N	Indication # 1 plots to be a geometric reflector from a small area of excessive penetration in the root pass. The reflector can only be seen from one side at 80% FSH and metal path reaches beyond the I.D. of the pipe.
C05.051.033A	2-14B-50-111	14B	09/02/1999	CLR		N	N	
C05.051.034	2LPS-606-4	14B	09/09/1999	REC		Y	N	Indication # 1 is a geometric reflector on the I.D This is determined by using 10.1.1 of NDE-600 rev. 12. 70 degrees shear showed low amp. & WSY-70 (bimodal) confirmed this.
C05.051.034A	2LPS-606-4	14B	09/09/1999	CLR		N	N	, - (
C05.081.004	2-FWD63-B	03	11/12/1999	CLR		N	N	
D02.020.009	2-03-H49	03	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98211962 was written to correct problems.

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DMMENTS	RFR	GEO REF	S INSP LIMITED	INSP STATUS	INSP DATE	SYSTEM	ID NUMBER	ITEM NUMBER
ode 6	N	N		CLR	11/09/1999	03A	2-03A-H8A	D02.020.049
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Work der # 98211957 was written to correct problems.		N	•••	REC	10/14/1999	03A	2-03A-R59	D02.020.053
nit was in service.	N	N		CLR	10/04/1999	03A	2-03A-RL-0603	D02.020.056
nit was in service.	N	N		CLR	09/22/1999	03A	2-03A-SR11	D02.020.060
nit was in service		N		CLR	10/13/1999	03A	2-03A-SR16	D02.020.064
nit was in service.	N	N		CLR	09/29/1999	03A	2-03A-SR17	D02.020.065
iit was in service.	N	N		CLR	10/13/1999	03A	2-03A-SR24	D02.020.071
iit was in service.	N	N	***	CLR	09/22/1999	03A	2-03A-SR3	D02.020.079
it was in service.	N	N		CLR	10/04/1999	03A	2-03A-SR31	D02.020.082
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Work der # 98211950 was written to correct problems.	N	N		REC	10/06/1999	03A	2-03A-SR44	D02.020.094
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Work der # 98211965 was written to correct problems. Unit was in rvice.	N	N		REC	09/22/1999	13	2-13-SR2	D02.020.107
	N	N		CLR	09/21/1999	13	0-14-H7010	D02.020.108
	N	N		CLR	09/27/1999	14B	2-14B-DE026	D02.020.110
oked at 92% of welded attachment by length. Firestop in place	N	N	92.00%	CLR	10/13/1999	14B	2-14B-DE135	D02.020.111
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Unit was service.	N	N		REC	09/22/1999	14B	2-14B-DE136	D02.020.112
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Unit was service.		N		REC	09/22/1999	1 4 B	2-14B-DE137	D02.020.113
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Unit was service.	N	N	*****	REC	09/22/1999	14B	2-14B-DE139	D02.020.114
screpancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Work der # 98221455 was written to correct problems.	N	N		REC	11/21/1999	14B	2-14B-DE141	D02.020.115
crepancies that were found were reviewed by civil engineering the support was found to be acceptable for service. Work der # 98211943 was written to correct problems. Unit was in	N	N		REC	10/14/1999	14B	2-14B-DE180	D02.020.117

service.

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and the support was found to be acceptable for service. Unit was

in service

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Flant: Oconee 2				Interval 3 Outage 3				02/02/2000		
ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATU	IS INSP LIMITED	GEO REF	RFR	COMMENTS		
D02.020.118	2-14B-DE181	14B	10/14/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in service.		
D02.020.120	2-14B-H2	14B	11/22/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.		
D02.020.122	2-14B-H3	14B	11/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.		
D02.030.005	2-03A-H3A	03A	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Mode 5		
D02.030.006	2-03A-SR100	03A	12/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98226068 was written to correct problems.		
D02.040.007	2-03-H63	03	11/28/1999	CLR		N	Ν			
D02.040.012	2-03A-H36	03A	10/25/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in service.		
D02.040.013	2-03A-H49	03A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98213412 was written to correct problems.		
D03.020.003	2-56-SR31	56	10/14/1999	CLR	94.40%	N	N	Inspected 94.4% of the welded attachment.		
F01.010.004	2-51A-H5C	51A	11/17/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.		
F01.011.003	2-51A-H8A	51A	11/09/1999	CLR		N	N	mode 6		
F01.012.003	2-50-H8	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Mode 5		
F01.012.008	2-57-RJP-H0801	57	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98220127 was written to correct problems. Mode 5		
F01.012.010	2-50-RCPM-2A2-SS2	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Mode 5		
F01.020.004	2-01A-H7	01A	09/28/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.		
F01.020.009	2-14B-H22C	14B	11/17/1999	CLR		N	N			
F01.020.013	2-51A-H10C	51A	11/17/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.		
F01.020.016	2-51A-H175	51A	10/14/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering		

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					iterval 3 Outag			02/02/2000
ITEM NUMBER	ID NUMBER		INSP DATE		S INSP LIMITED	GEO REF	RFR	COMMENTS
F01.020.019	2-51A-H7	51A	11/13/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
F04 000 004	0.500.05054							and the support was found to be acceptable for service.
F01.020.024	2-53B-DE054	53B	09/22/1999	CLR	***	N	N	Unit was in service.
F01.020.029	2-53B-H31	53B	10/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
E04 000 007	0.548.1105							and the support was found to be acceptable for service.
F01.020.037	2-54A-H25	54A	10/14/1999	CLR		N	N	Unit was in service.
F01.020.046	2-51B-H55	51B	09/22/1999	CLR		N	N	Unit was in service.
F01.021.005	2-14B-H12	14B	11/21/1999	CLR		N	N	
F01.021.008	2-51A-SR116	51A	11/13/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
E04 024 046	0.544.110	F4.4	00/00//000					Order # 98219978 was written to correct problems.
F01.021.016	2-51A-H6	51A	09/22/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Unit was
F01.021.020	2-53-H5	53	11/23/1999	CLR				in service.
F01.021.031	2-53-13 2-51B-DE012	53 51B	11/23/1999			N	N	
101.021.031	2-31D-DE012	316	11/13/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
F01.022.004	2-01A-H3	01A	09/21/1999	REC		A.1		Order # 98219984 was written to correct problems.
101,022.007	2-017(-110	VIA	09/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
F01.022.008	2-03-H7A	03	11/06/1999	CLR		N.	N.I	and the support was found to be acceptable for service.
F01.022.016	2-53B-H2	53B	09/21/1999	REC		N	N	Mode 5
	2 000 112	00B	03/21/1999	KEO		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
								Order # 98212123 was written to correct problems. Unit was in service.
F01.022.022	2-57-H16	57	11/06/1999	REC		N	N	
			·				11	A loose nut does not require an engineering evaluation per Hanger Spec. OS-0027.00-00-0002 (Paragraph 9.1). Work Order
								98217445 was written to correct the problem.
								Mode 5.
F01.030.002	0-14-H7020	13	09/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
							••	and the support was found to be acceptable for service.
F01.030.005	2-03A-DE007	03A	09/28/1999	CLR		N	N	Unit was in service.
F01.030.011	2-03A-GC-907	03A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Unit was
								in service.
F01.030.020	2-03A-SR16	03A	09/28/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Unit was
								Corrido. Offictiva

in service.

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ITEM NUMBER	ID NUMBER		INSP DATE		IS INSP LIMITE	D GEO REF	RFR	COMMENTS
F01.030.026	2-07A-R44	07A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service.
F01.030.032	2-14B-H25	14B	09/27/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service.
F01.030.039	2-14B-DE182	14B	10/14/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
								Order # 98211938 was written to correct problems.
F01.031.002	0-13-H7007	13	09/21/1999	CLR		N	N	
F01.031.009	2-03A-SR11	03A	09/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
								Order # 98212122 was written to correct problems.
F01.031.016	2-07A-SR3	07A	10/04/1999	REC	***	N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service.
F01.031.020	2-56-SR31	56	10/14/1999	REC		N	Ν	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service.
F01.032.001	2-01A-H8	01A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service.
F01.032.010	2-56-H13	56	11/13/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service.
F01.040.004	2-LDCB-SUPPORT	51A	11/09/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
504.040.000								Order # 98219958 was written to correct problems. Mode 6
F01.040.009	2-EFDW-MD-PU-A		10/12/1999	CLR		N	N	
F01.040.011	2-EFDW-TD-PU		10/13/1999	CLR		N	N	
F01.050.001	2-03-R12	03	04/14/1999	CLR		N	Ν	
F01.050.002	2-03-R7	03	09/20/1999	CLR		N	N	
F01.050.003	2-03-H4087	03	09/20/1999	CLR		N	N	
F01.050.004	2-01A-R14	01A	09/23/1999	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	2-01A-R15	01A	09/23/1999	CLR		N	N	·
F01.050.006	2-01A-R16	01A	09/23/1999	CLR		N	N	
F01.050.007	2-01A-R2-1	01A	11/04/1999	CLR		N	N	Unit was cooling down.
F01.050.008	2-01A-R2-2	01A	11/04/1999	CLR		N	N	Unit was cooling down.
F01.050.009	2-01A-R9-2	01A	11/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering
								and the support was found to be acceptable for service. Work
								Order # 98141231 was written to correct problems.
								I Indiana and Parasita

Unit was cooling down.

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ITEM NUMBER	ID NUMBER		INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS .
F01.050.010	2-01A-R9-3	01A	11/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98141231 was written to correct problems. Unit was cooling down.
F01.050.011	2-01A-R9-4	01A	11/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98141231 was written to correct problems. Unit was cooling down.
F01.050.012	2-53-H3	53	11/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98240017 was written to correct problems.
F01.050.013	2-50-H12	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.014	2-51A-H2A	51A	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98219184 was written to correct problems. Unit was in mode 5.
F01.050.015	2-03-H6B	03	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.016	2-03-H7A	03	11/06/1999	CLR		N	N	Mode 5.
F01.050.017	2-03A-H1B	03A	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98138451 was written to correct problems. Unit was in mode 5.
F01.050.018	2-50-H10	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.019	2-50-H11	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.020	2-50-H8	50	11/06/1999	CLR		N		Mode 5.
F01.050.021	2-50-H9	50	11/06/1999	REC		N		Discrepancies that were found were reviewed by civil engineering

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					nterval 3 Outage			02/02/2000
ITEM NUMBER	R ID NUMBER	SYSTEM	INSP DATE	INSP STATU	IS INSP LIMITED	GEO REF	RFR	COMMENTS
								and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.022	2-01A-H2A	01A	11/09/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Mode 6
F01.050.023	2-01A-H2B	01A	11/09/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98141231 was written to correct problems. Unit was in mode 6.
F01.050.024	2-01A-H8A	01A	11/09/1999	CLR		N	N	Mode 6.
F01.050.025	2-01A-H8B	01A	11/09/1999	REC	***	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 6.
F01.050.026	2-50-H1	50	11/06/1999	CLR		N	N	Mode 5.
F01.050.027	2-50-H3	50	11/06/1999	CLR		N	N	Mode 5.
F01.050.028	2-50-H7	50	11/06/1999	CLR		N	N	Mode 5.
F01.050.029	2-57-H15	57	11/06/1999	CLR		N	N	Mode 5
F01.050.030	2-57-H16	57	11/06/1999	REC	 .	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.031	2-57-H17	57	11/06/1999	CLR	***	N	N	Mode 5.
F01.050.032	2-57-H20	57	11/06/1999	CLR		N	N	Mode 5.
F01.050.033	2-57-H21	57	11/06/1999	CLR		N	N	Mode 5.
F01.050.034	2-57-H23	57	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.035	2-57-H25	57	11/06/1999	CLR		N	N	Mode 5.
F01.050.036	2-57-H7	57	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 and 98012755 were written to correct problems. Mode 5
F01.050.037	2-57-H9	57	11/06/1999	REC	•••	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.038	2-57-RJP-H0801	57	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering

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T TALLET				In	terval 3 Outage	∍ 3		02/02/2000
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F01.050.039	2-50-H1A	50	11/06/1999	REC		N	N	and the support was found to be acceptable for service. Mode 5 Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in
F01.050.040	2-50-H2A	50	11/18/1999	CLR		NI.	NI.	mode 5.
F01.050.041	2-50-H3A	50	11/06/1999	REC		N N	N N	Diagram and its that the first transfer is the same of
7 0 1100010 11	2 00 110/	30	11100/1333	KLO		N	IN	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.042	2-03A-SR102	03A	10/13/1999	CLR		N	N	Unit was in service.
F01.050.043	2-03A-SR103	03A	10/12/1999	CLR		N	N	
F01.050.044	2-03A-SR104	03A	10/12/1999	CLR		N	N	
F01.050.045	2-03A-SR100	03A	12/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.046	2-03A-SR101PO	03A	09/20/1999	CLR	****	N	N	
F01.050.047	2-51A-SR150	51A	09/22/1999	REC		N	N	A loose spacer does not require an engineering evaluation per Hanger Spec. OS-0027.00-00-0002 (Paragraph 9.1). Work Order 98202455 was written to correct the problem. Unit was in service.
F01.050.049	2-01A-H43	01A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98125535 was written to correct problems.
F01.050.050	2-01A-H44	01A	09/20/1999	CLR		N	N	·
F01.050.051	2-53B-SR100	53B	09/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98219169 was written to correct problems. Unit was in service.
F01.050.052	2-53B-SR1000	53B	09/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in service.
F01.050.053	2-01A-R7	01A	09/27/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98219169 was written to correct problems.
F01.050.054	2-54A-R16	5 4 A	10/14/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in service.

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F01.050.055	2-54A-R101	5 4 A	09/21/1999	CLR		N	N	Unit was in service.
F01.050.056	2-54A-R2B	54A	09/22/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in service.
F01.050.057	2-01A-R17	01A	10/04/1999	CLR		N	N	
F01.050.058	2-01A-R18	01A	10/04/1999	REC		N ·	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98217591 was written to correct problems.
F01.050.059	2-01A-R21	01A	09/27/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98141231 was written to correct problems.
F01.050.060	2-01A-R22	01A	09/27/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98103645 was written to correct problems.
F01.050.061	2-01A-R6	01A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.062	2-01A-R2	01A	09/27/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98216954 was written to correct problems.
F01.050.063	2-53B-SR1000	53B	09/21/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98219169 was written to correct problems. Unit was in service.
F01.050.064	2-13-SR1	13	10/04/1999	CLR		N	N	One was in scivics.
F01.050.065	2-13-SR4	13	09/27/1999	CLR	***	N	N	
F01.050.066	2-07A-DE039	07A	10/13/1999	CLR		N	N	Unit was in service.
F01.050.067	2-03-R13	03	11/28/1999	CLR		N	N	
F01.050.068	2-03A-DE034	03A	10/04/1999	CLR		N	N	Unit was in service.
F01.050.069	2-03A-H4088	03A	09/20/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.070	2-01A-R11	01A	10/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98103645 was written to correct problems.
F01.050.071	2-01A-R4	01A	10/04/1999	CLR	***	N	N	The second secon
F01.050.072	2-01A-R6	01A	09/28/1999	CLR		N	N	
F01.050.073	2-01A-DE076	01A	10/04/1999	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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F01.050.074	2-01A-DE077	01A	09/27/1999	CLR		N N	N	OSWINICITIO
F01.050.075	2-51A-H184	51A	10/14/1999	CLR		N	N	Unit was in service.
F01.050.076	2-51A-H167	51A	10/06/1999	CLR		N	N	one was in solvios.
F01.050.077	2-01A-DE060	01A	11/11/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98141231 was written to correct problems. PIP 99-4557 was written to document findings. Mode 6
F01.050.078	2-01A-DE061	01A	11/11/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Snubber to be deleted per NSM ON-23054. Mode 6
F01.050.079	2-01A-R7	01A	10/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98103645 was written to correct problems.
F01.050.080	2-01A-R9-1	01A	11/04/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98103645 was written to correct problems. Unit was cooling down.
F01.050.081	2-03A-NPS-H28	03A	11/09/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98219169 was written to correct problems. Unit was in mode 6.
F01.050.082	2-03-H6103	03	11/06/1999	CLR		N	N	Mode 5.
F01.050.083	2-03A-H3A	03A	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98218639 was written to correct problems. Unit was in mode 5.
F01.050.084	2-57-NWIZ	57	11/06/1999	CLR		N	N	Mode 5.
F01.050.086	2-03A-H121	03A	10/13/1999	CLR	***	N	N	Unit was in service.
F01.050.087	2-53B-DE063	53B	09/22/1999	CLR		N	N	Unit was in service.
F01.050.088	2-53B-DE068	53B	09/21/1999	CLR		N	N	Unit was in service.
F01.050.089	2-53B-DE060	53B	09/21/1999	CLR		N	N	Unit was in service.
F01.050.090	2-53B-DE070	53B	10/04/1999	CLR		N	N	
F01.050.091	2-53B-DE056	53B	09/21/1999	CLR		N	N	Unit was in service.
F01.050.092	2-01A-R19	01A	09/27/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98103827 was written to correct problems.
F01.050.093	2-01A-R27	01A	10/12/1999	CLR		N	N	

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F01.050.094	2-53B-DE057	53B	09/22/1999	CLR		N	N	Unit was in service.
F01.050.095	2-07A-H60	07A	10/12/1999	CLR		N	N	
F01.050.096	2-07A-H61	07A	10/12/1999	CLR		N	N	
F01.050.097	2-07A-H62	07A	10/12/1999	REC		N	N	A loose nut on an extention piece does not require an engineering evaluation per Hanger Spec. OS-0027.00-00-0002 (Paragraph 9.1). Work Order 98208689 was written to correct the problem.
F01.050.098	2-50-RCPM-2A1-SS1	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Mode 5
F01.050.099	2-50-RCPM-2A1-SS2	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.100	2-50-RCPM-2A1-SS3	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.101	2-50-RCPM-2A2-SS1	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.102	2-50-RCPM-2A2-SS2	50	11/06/1999	CLR		N	N	Mode 5.
F01.050.103	2-50-RCPM-2A2-SS3	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.104	2-50-RCPM-2B1-SS1	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.105	2-50-RCPM-2B1-SS2	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.106	2-50-RCPM-2B1-SS3	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.107	2-50-RCPM-2B2-SS1	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was in mode 5.
F01.050.108	2-50-RCPM-2B2-SS2	50	11/06/1999	REC		N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Unit was

in mode 5.

Discrepancies that were found were reviewed by civil engineering

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COMMENTS	RFR	D GEO REF	S INSP LIMITE	INSP STATUS	INSP DATE	SYSTEM	ID NUMBER	ITEM NUMBER
and the support was found to be acceptable for service. Unit was in mode 5.								
	N	N		CLR	11/19/1999	51A	2HP-218-18	G04.001.007
Indications 1 & 2 are geometric reflectors from the weld root. This was confirmed by plotting the UT data using ID thickness and OD contours and also using a 70 degrees shear wave, bi-modal transducer and review of RT film.	N	Y		REC	11/16/1999	51A	2HP-214-13	G04.001.010
	N	N		CLR	11/19/1999	51A	2HP-214-15	G04.001.011
Indications 1 & 2 are geometric reflectors from the weld root. This was confirmed by plotting the UT data using ID thickness and OD contours and also using a 70 ° shear wave, bi-modal transducer and review of RT film.	N	Y		REC	11/16/1999	51A	2HP-214-14	G04.001.017
Indications 1 & 2 are geometric reflectors from the weld root. This was confirmed by plotting the UT data using ID thickness and OD contours and also using a 70° shear wave, bi-modal transducer and review of RT film.	N	Y		REC	11/17/1999	51A	2HP-216-7	G04.001.018
Indications 1 & 2 are geometric reflectors from the weld root. This was confirmed by plotting the UT data using ID thickness and OD contours and also using a 70° shear wave, bi-modal transducer and review of RT film.	N	Y		REC	11/17/1999	51A	2HP-216-8	G04.001.019
Indication 1 is a geometric reflector from the weld root. This was confirmed with a 70° shear wave, bi-modal transducer and review of RT film.	N	Υ		REC	11/17/1999	51A	2HP-216-9	G04.001.020
	N	N		CLR	11/17/1999	51A	2HP-217-10	G04.001.021
	N	N		CLR	11/17/1999	51A	2HP-217-11	G04.001.022
Indications 1 is an ID geometric reflector due to the weld root geometry. This was verified by the use of multiple angles (60° shear, 70°shear, 60° L-wave and WSY 70) and review of the RT film.	N	Y		REC	11/17/1999	51A	2HP-217-12	G04.001.023
Indications 1 & 2 are determined to be geometric reflectors due to the weld root geometry. This was confirmed by the use of multiple angles (60° shear, 70°shear, 60° L-wave) and review of the RT film.	N	Υ		REC	11/16/1999	51A	2HP-218-20	G04.001.024
Indications 1 & 2 are determined to be geometric reflectors due to the weld root geometry. This was verified by the use of multiple angles (60° shear, 70°shear wave, 60° L-wave) and review of the RT film.	N	Y		REC	11/16/1999	51A	2HP-218-21	G04.001.025
133 Mills	N	N		CLR	11/19/1999	51A	2HP-218-22	G04.001.026

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G09.001.001	2LPS-603-2	14B	11/23/1999	CLR		N	N	
G09.001.012	2-53B-19-58	53B	09/13/1999	CLR		N	N	
G09.001.024	2-53B-28-44	53B	09/09/1999	CLR		N	N	
G09.001.031	2-53B-31-5	53B	09/08/1999	CLR		N	N	
G09.001.037	2-54A-8-2	54A	09/09/1999	CLR		N	N	
G09.001.038	2-54A-8-9	54A	09/14/1999	CLR		N	N	
G09.001.039	2-54A-8-13	54A	09/14/1999	CLR		N	N	
G10.001.009	2-PIB1-12	50	11/11/1999	CLR	***	N	N	
G10.001.010	2-PIB2-12	50	11/12/1999	CLR		N	N	
G12.001.002	2-51B-18-79	51B	11/21/1999	CLR		N	N	
G12.001.009	2-51B-22-32	51B	11/21/1999	CLR		N	N	
G12.001.014	2-51B-25-83	51B	11/22/1999	CLR		N	N	

5.2 Limited examinations (i.e., less than or equal to 90% of the required examination coverage obtained) identified during Outage 17 are shown below. A copy of the Request for Relief is contained in Section 9.0 of this report

<u>Item Number</u>	Request for Relief Serial Number
B03.110.002	00-01
B03.110.003	00-01
B03.110.004	00-01
B03.110.005	00-01
B03.130.001	95-04
B03.130.002	95-04
B03.130.006	00-01
B03.140.001	95-04
B03.140.002	95-04
B03.140.006	00-01

6.0 Reportable Indications

Outage 17 had no reportable indications.

7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from May 25, 1998 to December 16, 1999 at Oconee Nuclear Station, Unit 2, 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

No corrective action was required as a result of examinations performed during Outage 17.

9.0 Reference Documents

The following reference documents apply to the inservice inspection performed during Outage 17 at Oconee 2.

Duke Energy Request for Relief 95-04

Duke Energy Request for Relief 00-01

PIP O-99-04557

Duke Power Company

		Station	0	conee	_ Unit	2
10-YEAR	INTERVAL	REQUEST	FOR	RELIEF	NO.	00-01

- I. System/Component(s) for Which Relief is Requested:
 - a. Pressurizer Nozzle-to-Vessel Welds:

2-PZR-WP34 Item Number B03.110.002

2-PZR-WP33-3 Item Number B03.110.003

2-PZR-WP33-2 Item Number B03.110.004

2-PZR-WP33-1 Item Number B03.110.005

b. Steam Generator (Primary Side) Nozzle-to-Vessel Weld:

2-SGB-WG25 Item Number B03.130.006

c. Steam Generator (Primary Side) Nozzle Inside Radius Section:

2-SGB-WG25 Item Number B03.140.006

II. Code Requirement:

Figure IWB-2500-7, Examination Category B-D, Full Penetration Welds Of Nozzles In Vessels - Inspection Program B.

III. Code Requirement from which Relief is Requested:

Relief is requested from the requirement of examining essentially 100% of the weld length. The applicable code required is ASME Section V, Article 4, T-441.3.2, Scanning Requirements, 1989 Edition with no Addenda as modified by Code Case N-460. Due to part geometry and actual physical barriers, obtaining greater than 90% coverage of the required volume as outlined in Code Case N-460 is not possible with existing limitations.

The specified Code requirements identified in Section this request, require scanning of examination volume(s) using three angle beams and a straight beam from both sides of the weld. scanning for reflectors parallel to the weld, angle beams shall be aimed at right angles to the weld axis, with the search unit(s) manipulated so that the ultrasonic beams pass through the entire volume of weld metal. The adjacent base metal the examination volume must be completely scanned by both angle beams from both directions (any combination of two angle beams will satisfy the requirement).

When scanning for reflectors transverse to the weld, the angle beam search units shall be aimed parallel to the axis of longitudinal and circumferential welds. The search unit shall be manipulated so that the ultrasonic beams pass through all of the examination volume.

Scanning shall be done in two directions 180 degrees to each other to the extent possible. Areas blocked by geometric conditions shall be examined from at least one direction.

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:

Pressurizer Nozzle-to-Vessel Weld 2-PZR-WP34 (Item Number B03.110.002) was examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section XI, Appendix I 1989 Edition, and Appendix VIII of the 1992 Edition with the 1993 Addenda as modified by the Performance Demonstration Initiative (PDI). Reference Attachment A for a drawing of the Pressurizer.

This weld is limited to 36% coverage of the required volume because single sided access of the nozzle configuration. In order to achieve more coverage, the nozzles would have to be re-designed to allow scanning from both sides of the weld.

Pressurizer Nozzle-to-Vessel Welds 2-PZR-WP33-3 2-PZR-WP33-2 and 2-PZR-WP33-1 (Item Numbers B03.110.003 B03.110.004 and B03.110.005 respectively) examined the maximum to extent practical using ultrasonic techniques in accordance with requirements of ASME Section XI, Appendix I of the 1989 Edition and Appendix VIII of the 1992 Edition Addenda modified by the with the 1993 as Reference Attachment Α for a drawing of the Pressurizer.

These welds are limited to 37.1% coverage of the required volume because of the nozzle configuration and location of lifting lugs. In order to achieve more coverage, the nozzles would have to be redesigned to allow scanning from both sides of the weld.

Steam Generator Nozzle-to-Vessel Weld 2-SGB-WG25 (Item Number B03.130.006) was examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, and ASME Section XI, Appendix I, of the 1989 Edition.

This weld is limited to 58% coverage of the required volume because of the nozzle configuration. In order to achieve more coverage, the nozzles would have to be re-designed to allow scanning from both sides of the weld. Reference Attachment B for a drawing of the Steam Generator.

Steam Generator Nozzle-to-Vessel Inside Radius Section for weld 2-SGB-WG25 (Item Number B03.140.006) examined the to maximum extent practical using techniques ultrasonic in accordance with requirements of ASME Section V, Article 4, and ASME Section XI, Appendix I, of the 1989 Edition.

The Inside Radius Section is limited to 70.21% coverage of the required volume because of the nozzle configuration. In order to achieve more coverage, the nozzles would have to be re-designed to allow scanning from both sides of the weld. Reference Attachment B for a drawing of the Steam Generator.

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.

Duke Energy proposes to use the pressure test and VT-2 visual examination to compliment the 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 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 This testing will provide adequate assurance leakage. of pressure boundary integrity.

In addition to the above Code required examinations (volumetric and pressure test), there are activities which provide a high level of confidence in the unlikely case that leakage did occur through these welds, it would be detected isolated. Specifically, leakage from these welds would be detected by monitoring of the Reactor Coolant System (RCS), which is performed once each shift under procedure PT/1,2,3/A/0600/10, "RCS Leakage". leakage monitoring is a requirement of the Technical Specification 3.4.13, "Reactor Coolant Leakage". Leakage is also evaluated in accordance with this Technical Specification. The leakage could be detected through several methods. One method is the RCS mass balance calculation. Another method is by use of the Reactor Building air particulate monitor. This monitor is sensitive to low leak rates: iodine monitor, gaseous monitor and area monitor are capable of detecting any fission products in coolant and will make these monitors sensitive leakage. coolant In addition to the radiation monitors, leakage is also monitored bv a indicator in the Reactor Building normal Another check would be a loss of level in the Letdown Storage Tank.

Duke Energy has examined the welds/components referenced in this request to the maximum extent utilizing possible the latest in examination techniques and equipment. Duke Energy will continue perform ultrasonic examination of welds/components identified in Section I of request to the maximum extent practical, within the limits of original design and construction, accordance with the requirements of ASME Section V, Article 4, and ASME Section XI, Appendix I, of the 1989 Edition, and Code Case N-460. Appendix VIII as modified by the PDI will be used to examine welds within the scope of the PDI Program. This will provide reasonable assurance of weld/component integrity. Thus, an acceptable level of quality and safety will have been achieved, and public health and safety will be endangered by allowing relief from aforementioned Code requirements.

VI. Justification for the Granting of Relief:

Duke Power Company will continue to ultrasonically examine the welds, including inside radius, 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 public health and safety will not be endangered by allowing relief from the aforementioned Code requirements.

The Code requires 100% volumetric examination of all Pressurizer Nozzle-to-Vessel Welds, Steam Generator Nozzle-to-Vessel Weld and Steam Generator Nozzle-to-Vessel Inside Radius Section. However, the taper on the nozzle side of the weld restricts scanning and prevents complete volumetric coverage of Pressurizer Nozzle-to-Vessel Welds 2-PZR-WP34, 2-PZR-WP33-3, 2-PZR-WP33-2 and 2-PZR-WP33-1; and Steam Generator Nozzle-to-Vessel Weld and Inside Radius for weld 2-Therefore, the 100% volumetric examination impractical. To meet Code examination requirements, modifications to the nozzles would be necessary to allow scanning from both sides of the Modification to this portion of the reactor coolant system would create a considerable burden on Duke Energy.

Duke Energy obtained 36% coverage of Pressurizer Nozzle-to-Vessel Weld 2-PZR-WP34 and 37.1% coverage of Pressurizer Nozzle-to-Vessel welds 2-PZR-WP33-3, PZR-WP33-2 and 2-PZR-WP33-1; and 58% coverage of the Steam Generator Nozzle-to-Vessel weld and coverage of the inside radius of Steam Generator weld 2-SGB-WG25. It is recognized that this represents a small part of the required Code examination volume. However, in conjunction with the Code required VT-2 visual examination after each refueling outage and the 10-year hydrostatic test; Duke Energy believes this 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:

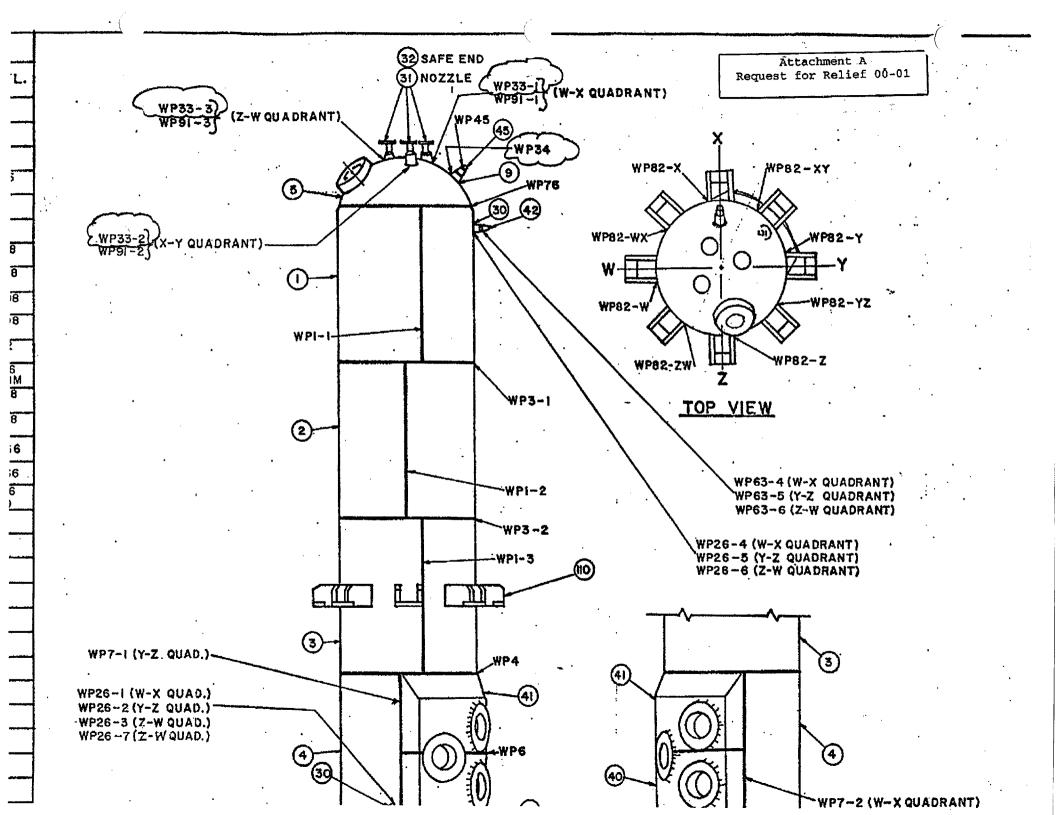
Unit 2, Refueling Outages 17

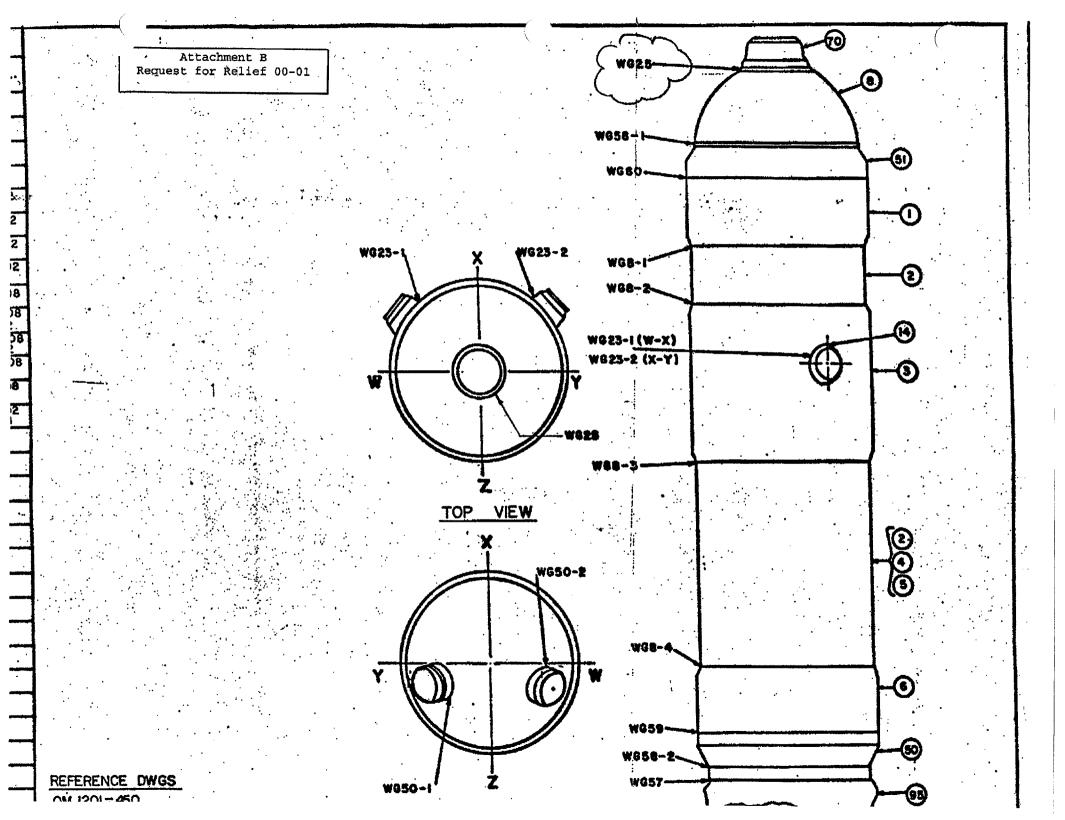
The following individuals were involved in the development of this request for relief:

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

Sponsored By: Revive Date: 2/14/00

Approved By: R. Levin Physe Date: 2/16/00





DUKE POWER COMPANY ULTRASONIC DATA SHEET FOR PLANAR REFLECTORS IN FERRITIC PRESSURE VESSELS

Station: O	CONEE	Unit:	2	10	Component/V	Veld ID:	2 - 1	77.8		
Weld Length (in.): Z4.4	" Surfac	ce Conditi		GROUDD	Lo 9.2		P-1934	Date: 12 2 99	
Procedure No						1.6		Exam Start: 1430 E	xam Finish: 1530	
NDE-620 Revision: 8	70° <u>58</u> de	Scans Zone I 60° Zone III Axi		Zone II	 	nfiguration こつひし、ド	EAD	Surface Temp. 73 o F MCDE- Pyrometer s/n: 27010	Calibration Sheet No: 990Z106	
FC_DA		Zone III Circ			Scan	Surface: OD		Cal. Due Date: 427 00	9902107	
Indication #	∠ MP _{max}	% FSH	L _{max}	W _{max}	SU LOCATION	DEAM DIRECTION	SCAN	REMAR	KS	
NRI	70°									
										Re
		·								A P Request
										ttac age for
> 90% Examiner:	Coverage ob							n report is required Item No: B	03.110.007	Attachment C Page 1 of 52 st for Relief 00-01
Reviewed by:	David C=		Level: _ <u>1</u> L	_ Date: _ T Da	12 2 99 te: 12/3/99	Examiner: _	<u>Nar</u>	Item No: B Moss Level: 1 ector: 408C	Date: 12-3-99	-01
					Total C	_ rumonze	ı ınspe	ector: <u>491/3 (</u>	Date: 12-6-99	٠.
									Page 1 of 9	

	DUKE POWER C	OMPANY		FORM NDE-UT-4
	ISI LIMITATION			Revision 1
Component/Weld ID: 2-PZR-WP34	ite	m No: B03.110.002	Remarks:	
☑ NO SCAN	SURFACE	BEAM DIRECTION	Nozzle Configura	ition
	□ 1 ⊠ 2	☑ 1 ☑ 2 ☑ cw ☑ ccw		
FROM L N/A to L N/A	INCHES FROM	WO C/L to Beyond		
ANGLE: ☐ 0 ☐ 45 ☒ 60 ☒ Other	70°	FROM <u>0</u> DEG to <u>360</u> DEG		
□ NO SCAN		BEAM DIRECTION		
	□ 1 □ 2	□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCHES FROM	WO to		
ANGLE: ☐ 0 ☐ 45 ☐ 60 ☐ Other				
		BEAM DIRECTION		
☐ LIMITED SCAN	□ 1 □ <u>2</u>	□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCHES FROM	WO to		Re
ANGLE: ☐ 0 ☐ 45 ☐ 60 ☐ Other				quest
□ NO SCAN	SURFACE	BEAM DIRECTION	2.0	Page 2 of 5 Request for Relie
	□ 1 □ 2	□ 1 □ 2 □ cw □ ccw		Rel
FROM L to L	INCHES FROM	WO to		H N
ANGLE: 0 0 45 0 60 0 Other				00-01
Prepared By: Jay Eaton		te: 12/2/99 Sketch(s) attached 🖾	yes □ no	Sheet 2 of 9
Reviewed By: David (3	Date: 12/3/	Authorized Inspector: 4013		Date: 12-6-99

	NDE-91-1					
		Revision 0				
		Examina	tion Volume/	Area Defined		
☑ Base Metal	⊠	Weld	□ Near Su	ırface D	Bolting	☐ Inner Radius
	Area Ca	lculation		Vo	lume Cal	culation
		Co	verage Calcu	ulations		
Scan # Angle	Beam Directio	Area Examined n (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volun Requi (cu.ir	red Percent Coverage
70				34.1		0.00
60				37.8		0.00
						0.00

Aggregate %

71.9 / 2 = 35.95 = 36%

			Item No:	B03.110.002
Prepared By: Larry Mauldin Saus Mauldis	Level:	111		Date: 12/2/99
Reviewed By: David K 3	Level:	I		Date: 12/3/99

Attachment C Page 4 of 52 Request for Relief 00-01

DUKE POWER COMPANY

NDE-91-1

Limited Examination Coverage Worksheet						Revision 0		
- 24 W. W. C.			Examinati	ion Volume	Area Defined			
⊠ Ba	se Meta	ı ⊠ (Weld	□ Near S	Surface	□ Bolting	, 1	nner Radius
		Area Calcu	ulation		Vo	olume Ca	culation	
(See Ex	kam Area	Drwg.)		7.4	4 sq.in. X 24.4 in	.= 180.56	cu.in.	
Zone 1		7.4 sq.	in.					
			Cov	verage Calc	vulations			
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume	Volu Requ (cu.i	red Perc	cent Coverage
1	70	2	3.6	24.4	87.84	180.	56	48.65
2	70	1	1.3	24.4	31.72	180.	56	17.57
3	70	CM	2.6	24.4	63.44	180.	56	35.14
4	70	CCW	2.6	24.4	63.44	180.	56	35.14

246.44

722.24

34.12

34.1%

			Item No:	B03.110.002
Prepared By: Larry Mauldin	eur Moulder	Level: II	1	Date: 12/2/99
Reviewed By: Paril	C 3.	Level: ፲		Date: 12/3/99

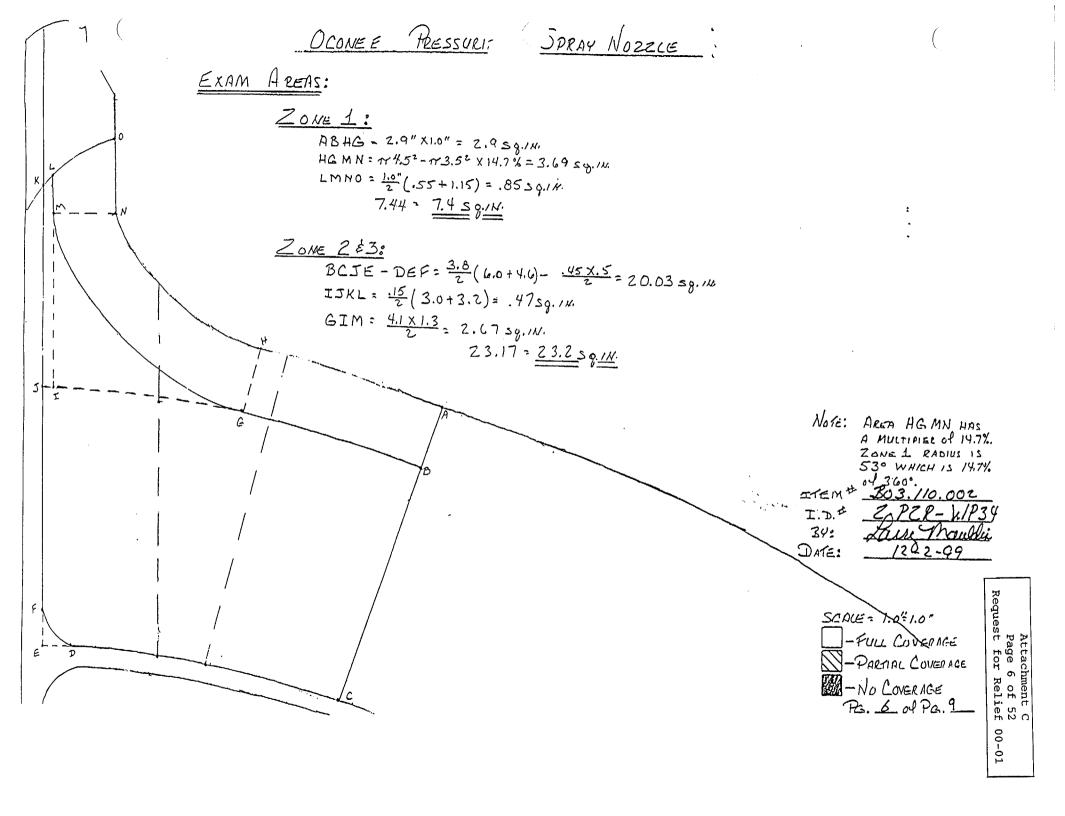
Attachment C Page 5 of 52 Request for Relief 00-01

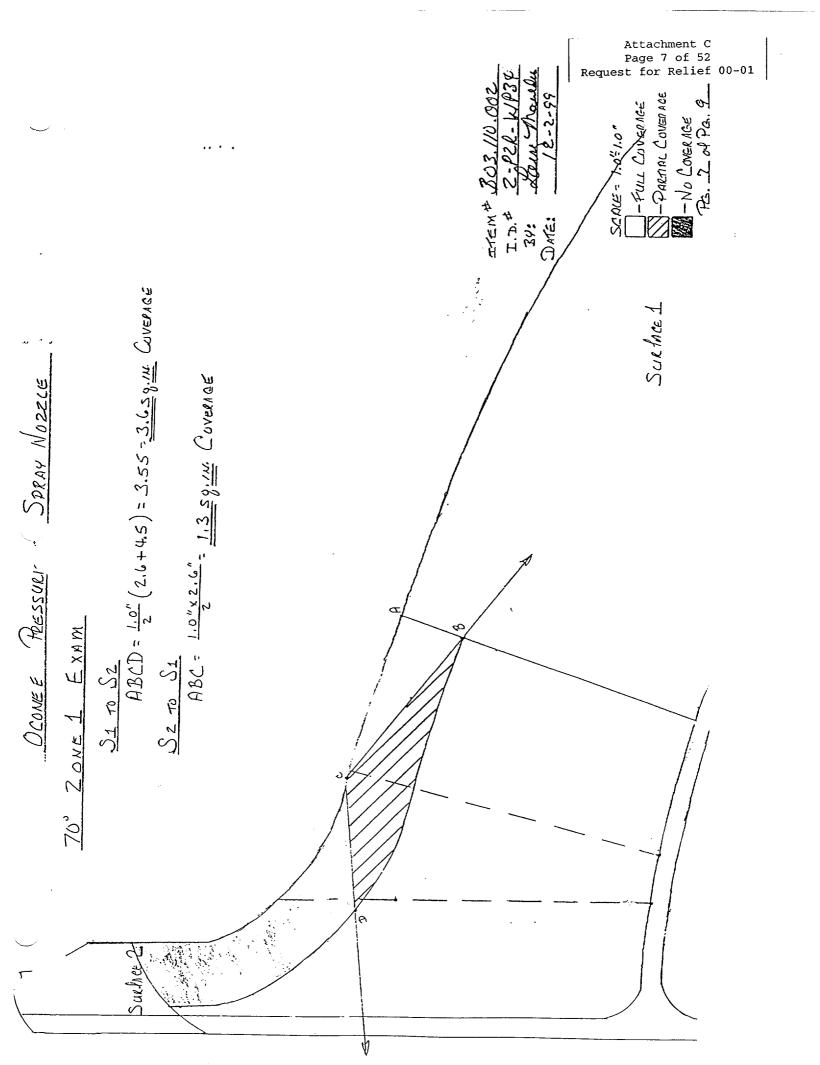
		DUKE	POWER C	COMPA	YNA				NDE-91-1
		Limited Exa	mination Cov	rerage W	/orkshe	eet			Revision 0
			Examination	on Volur	me/Are	a Defined			
⊠ Bas	se Metal	⊠ W	eld	□ Nea	r Surfac	ce C	Bolting	Ī	☐ Inner Radius
		Area Calcula	ation			Vo	lume Ca	culat	ion
(See Exam Area Drwg.)					23.2 sq.in. X 24.4 in.= 566.08 cu.in.				
Zone 2 & 3 23.2 sq.in.									
2010 2 00									
				-					
		- "-	Cov	erage C	alculat	ions			
Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Lengt Examir (in.)	ned E	Volume Examined (cu.in.)	Volu Requ (cu.	ired	Percent Coverage
1	60	2	19.8	24.4		483.12	566	.08	85.34
2	60	1	.1	24.4		2.44	566.	.08	0.43
3	60	CW	7.6	24.4		185.44	566.	.08	32.76
4	60	CCW	7.6	24.4		185.44	566.	.08	32.76
						856.44	2264	.32	37.82

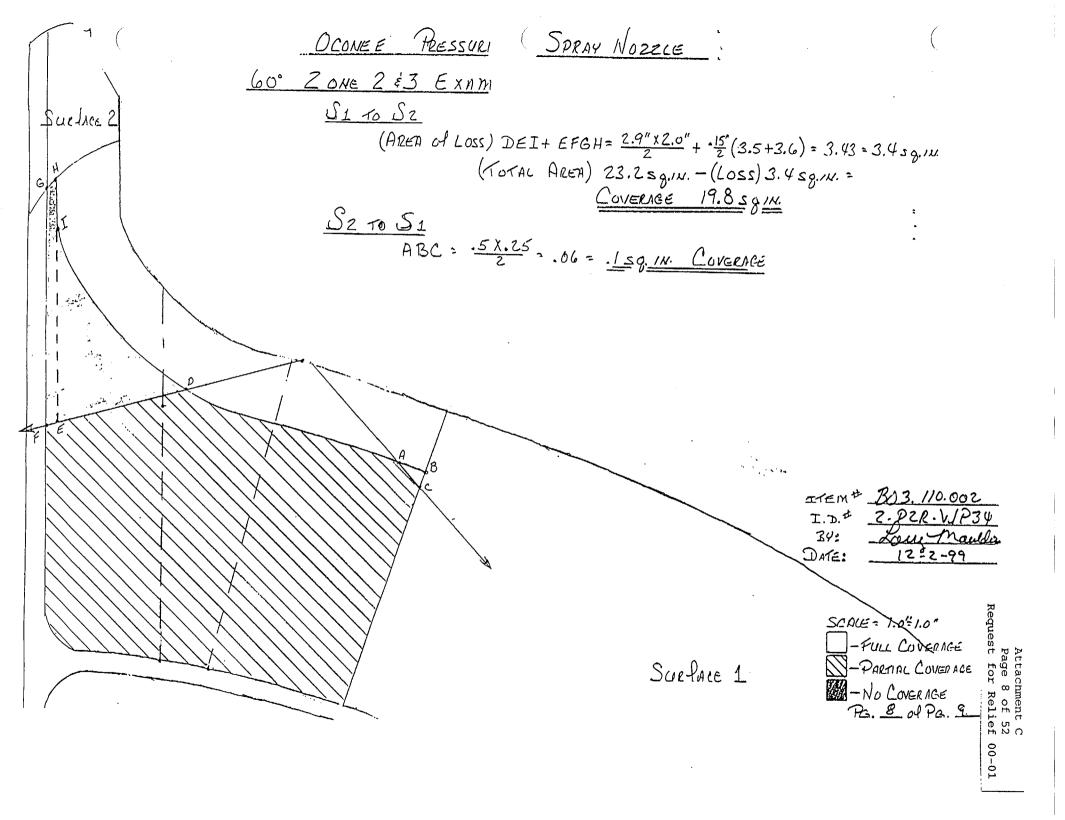
37.8%

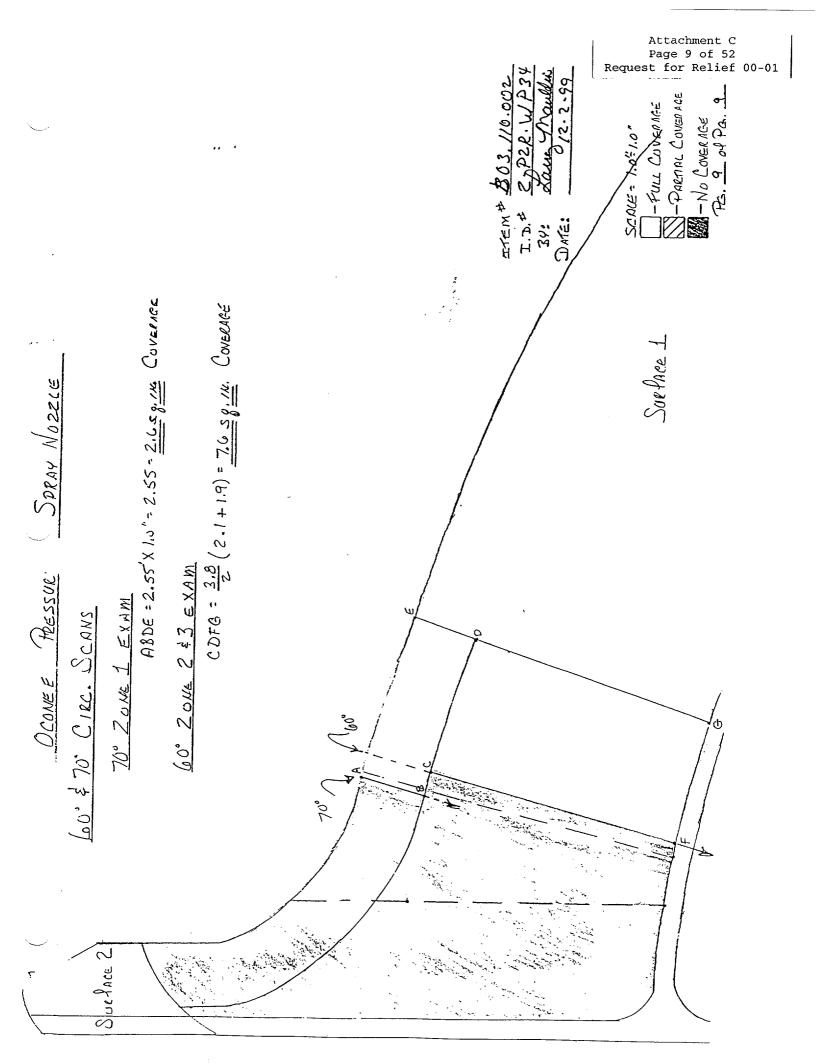
4		Item No:	B03.110.002
Prepared By: Larry Mauldin XXIII Mouldus	Level: II	1	Date: 12/2/99
Reviewed By: Pariel K. 2 -	Level: 1		Date: 12/3/99

5 opq









DUKE POWER COMPANY ULTRASONIC DATA SHEET FOR PLANAR REFLECTORS IN FERRITIC PRESSURE VESSELS

Station:	000r	IEE	Unit:	Z		Component/V	Vald ID.	-, -,		
Weld Length	ı (in.):	21.6"	Surfac	ce Condit		42002D		<u>Z - 1</u>		Date: 17 7 99
Procedure N	<u> </u>					92020	Lo 9.2	>	Exam Start: 1430 Ex	am Finish: 1530
NDE-6Z Revision: $\frac{2}{\sqrt{A}}$	<u>o</u> 70	0° <u>용0</u> dB :	Scans Zone I 60° Zone III Axid Zone III Circ	al	Zone II	NOZZLE	nfiguration こつひ. ト Surface: OD	L EAD	Surface Temp. 73 o F MCDDE- Pyrometer s/n: Z7010 Cal. Due Date: 427 00	Calibration Sheet No: 9902106 9902107 9902108
Indication #	400	MP_{max}	% FSH	L _{max}	Wmax	SU LOCATION	BEAM DIRECTION	SCAN	REMARKS	
NRI	70°								3,5,1,5,1,7,1	
·			·					 		
<u> </u>				· · · · · ·						
						-				
						<u>.</u>				
kaminer:		1	ined: ye	Level: <u>I</u>	L _{Date:}	12/2/99	Evaminan	M.	n report is required Item No: BC Level: I	3.110,003
viewed by:	<u>Da</u>	will 2		_Level: 7	II_Da	ate: 12/3/99	_ Authorize	d Inspe	Level: I	Date: <u>12-2-99</u> Date: <u>12-6-99</u>
										Page L of 9

Attachment C
Page 10 of 52
equest for Relief 00-

	DUKE POWER COMPANY									
	ISI LIMITATIO		·	Revision 1						
Component/Weld ID: 2-PZR-WP33-3		Item No: B03.110.003	Remarks:							
⊠ NO SCAN	SURFACE	BEAM DIRECTION	Nozzle Configura	ation						
☐ LIMITED SCAN	□ 1 ⊠ 2	□ 1 □ 2 □ cw □ ccw								
FROM L										
ANGLE: □ 0 □ 45 図 60 図 Other	70°	FROM _ 0 _ DEG to _ 360 _ DEG								
□ NO SCAN	SURFACE	BEAM DIRECTION	Lifting Lug							
☐ LIMITED SCAN	⊠ 1 □ 2	□ 1 図 2 □ cw □ ccw								
		OM WOC/L+10" toBeyond		·						
ANGLE: □ 0 □ 45 図 60 図 Other	70	FROM 190 DEG to 230 DEG	10 mm and 10 mm							
□ NO SCAN	SURFACE	BEAM DIRECTION								
☐ LIMITED SCAN	□ 1 □ 2	□ 1 □ 2 □ cw □ ccw								
FROM L to L	INCHES FRO	OM WO to		3						
ANGLE: 0 0 45 0 60 0 Other		FROM DEG to DEG								
□ NO SCAN	SURFACE	BEAM DIRECTION								
☐ LIMITED SCAN	□ 1 □ 2	□ 1 □ 2 □ cw □ ccw								
FROM L to L	INCHES FRO	OM WO to	1 1 1 1 5 1 8 4							
ANGLE: 0 0 45 0 60 0 Other		FROM DEG to								
Prepared By: Jay Eaton	Level: II	Date: 12/2/99 Sketch(s) attached ⊠	yes □ no	Sheet 2 of 9						
Reviewed By: David K 3	Date: 13/3/99	Authorized Inspector: Ymr	30	Date: /2-/-99						

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Attachment C Page 12 of 52 Request for Relief 00-01

		DU	KE PO	NER (COMP	ANY	•			NDE-91-1	
		Limited I	Examinat	ion Cov	/erage V	Vork:	sheet			Revision 0	
			Ex	aminati	on Volu	me/A	rea Define	d			
⊠ Bas	e Metal		Weld		□ Nea	ır Su	face	□ Bolting	3	☐ Inner Radius	
		Area Ca	lculation				V	olume Ca	lcula	tion	
								2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
				Cov	erage C	alcu	lations				
Scan#	Angle	Beam Directio	Exa	Area amined aq.in.)	Leng Exami (in.	ned	Volume Examined (cu.in.)	Volu Requ (cu.	ired	Percent Coverage	
	60						38.7			0.00	
	70						35.5 72.2			0.00	

Aggregate %

74.2 / 2 = 37.1%

_		Item No:	B03.110.003
Prepared By: Larry Mauldin My Mouldy	Level: I	1	Date: 12/2/99
Reviewed By: Paril ?	Level: エ		Date: (2/3/59

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	***	DUKE	POWER	COMP	ANY		ND	E-91-1
		Limited Exa	mination Co	verage V	Vorksheet		Re	vision 0
			Examinati	on Volu	me/Area D	efined		
⊠ Ba	se Meta	ı ⊠ W	eld	□ Nea	ır Surface	☐ Bolting	g 🗆 [nner Radius
		Area Calcula	ation			Volume Ca	lculation	
(See Exam Area Drwg.)					23.6 sq.in. >	(21.6 in.= 509.7	6 cu.in.	
Zone 2	& 3	23.6	sq.in.			• •		
			Cov	erage C	alculations	6		
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Leng Exami (in.	ned Exam	nined Requ	ired Perc	ent Coverage
1	60	2	19.2	21.6	414	1.72 509	.76	81.36
2	60	1	.1	21.6	2.	16 509	.76	0.42
3	60	CW	8.6	21.6	185	5.76 509	.76	36.44
4	60	CCW	8.6	21.6	185	5.76 509	.76	36.44
					78	8.4 2039	0.04	38.67

38.7%

	Item No:	B03.110.003
Prepared By: Larry Mauldin Lane Mauldy	Level: III	Date: 12/2/99
Reviewed By: Pacific 3	Level: II	Date: 12/3/99

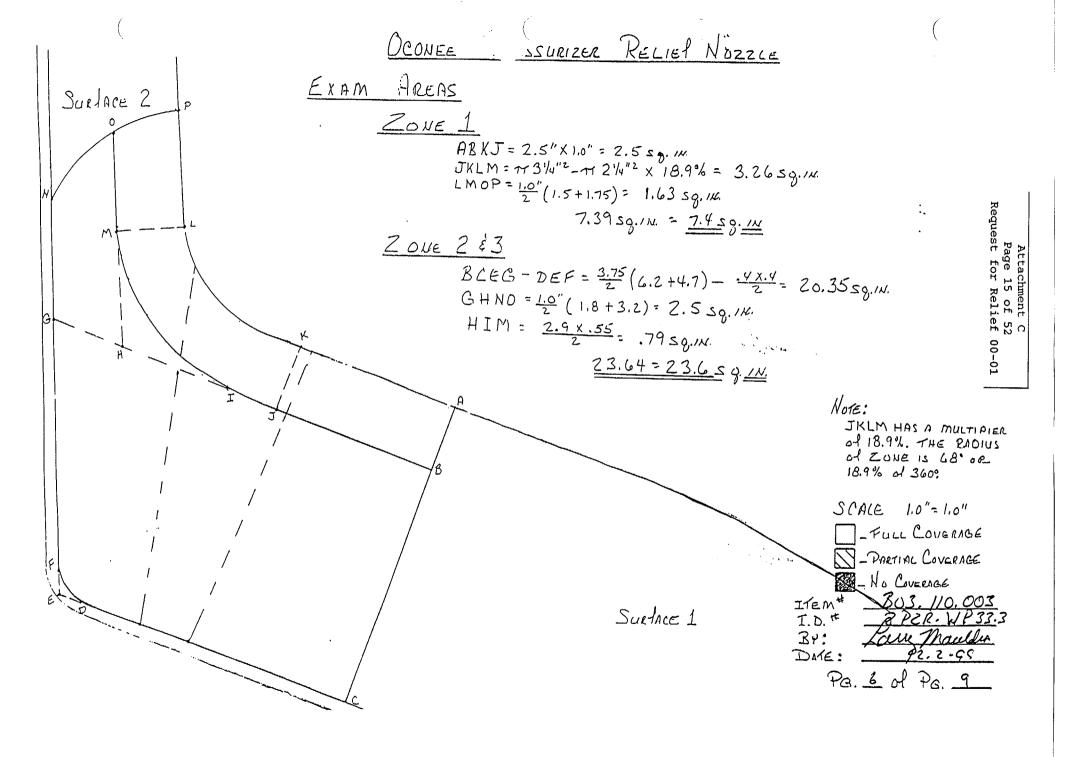
Attachment C
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Request for Relief 00-01

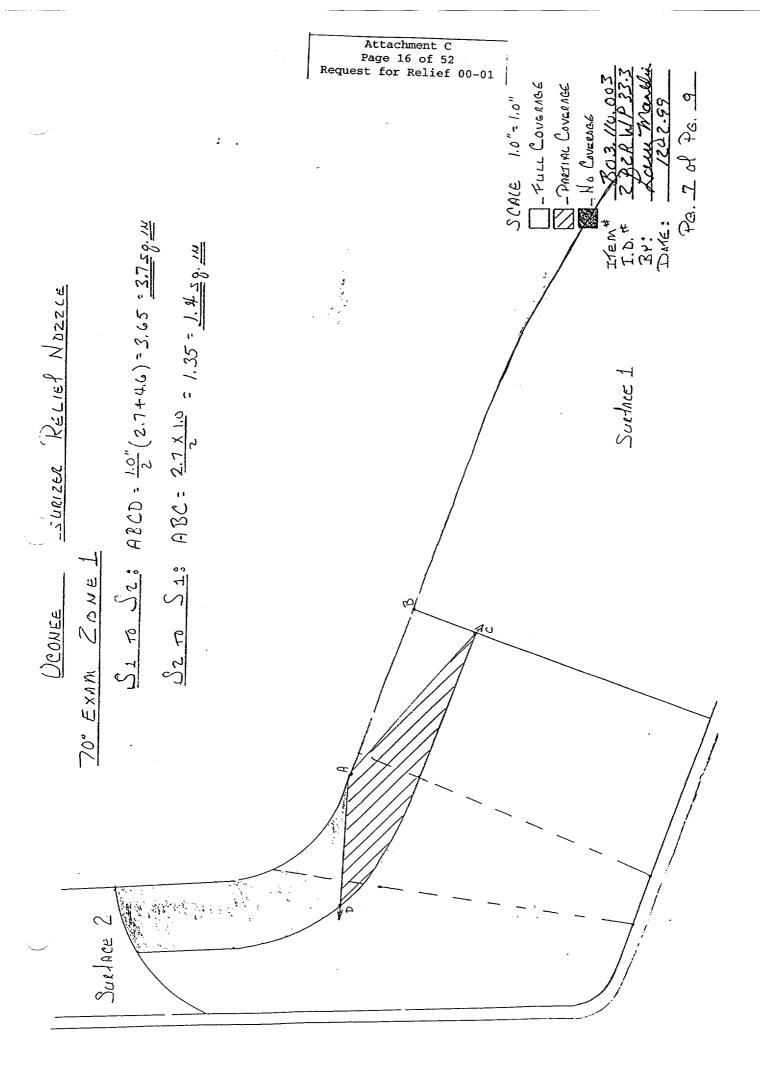
		DUKE	POWER C	OMPA	ANY			NDE-91-1	
		Limited Exa	mination Cov	erage V	Vorksheet			Revision 0	
			Examination	on Volu	me/Area D	efined	**************************************		
⊠ Bas	se Meta	ı ⊠ W	'eld	□ Nea	r Surface	□ Boli	ting	☐ Inner Radius	
		Area Calcul	ation			Volume	Calculat	tion	
(See Ex	am Area	Drwg.)	2		7.4 sq.in. X 21.6 in.= 159,84 cu.in.				
Zone 1		7.4 sq.in		j		• •			
			Cove	erage C	alculation	S			
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Leng Examir (in.)	ned Exar	nined Re	olume equired cu.in.)	Percent Coverage	
1	70	2	3.7	21.6	7:	9.92	159.84	50.00	
2	70	1	1.4	21.6	3	0.24	159.84	18.92	
3	70	CW	2.7	21.6	-		159.84	36.49	
4	70	CCW	2.7	21.6	58	8.32	159.84	36.49	
					2:	26.8	39.36	35.47	

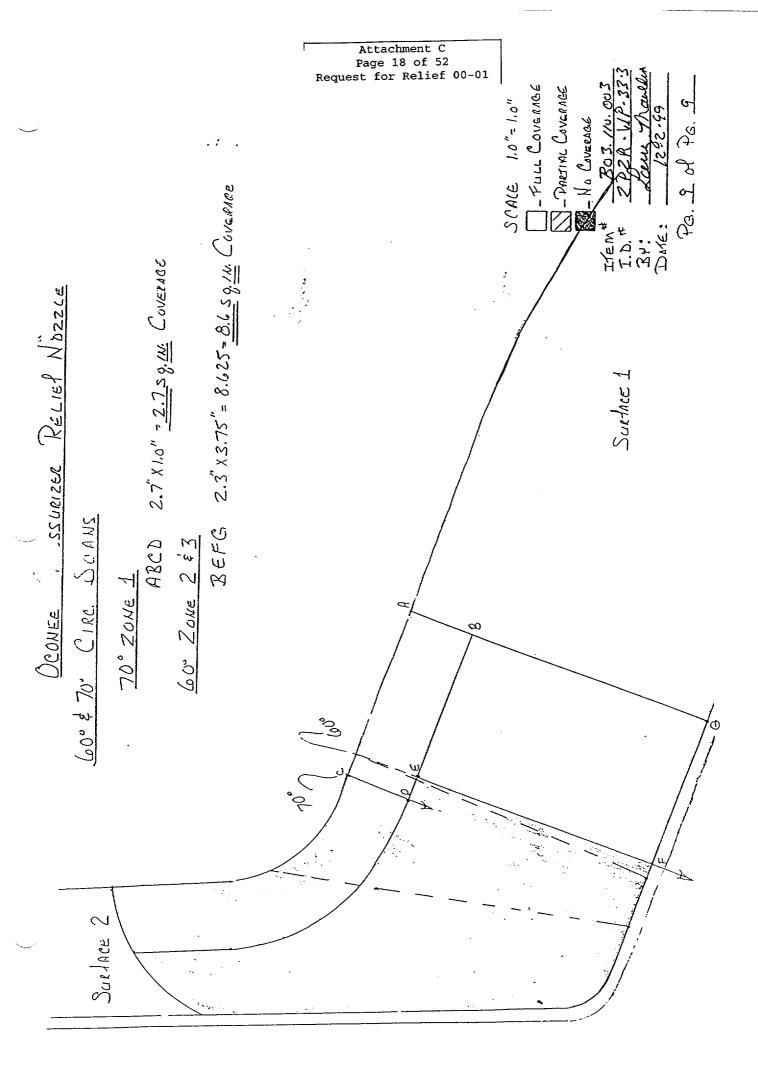
35.5%

		Item No:	B03.110.003
Prepared By: Larry Mauldin	Level:	111	Date: 12/2/99
Reviewed By: Daniel K. Z.	Level:	T.	Date: 12/3/99

5-9







DUKE POWER COMPANY ULTRASONIC DATA SHEET FOR PLANAR REFLECTORS IN FERRITIC PRESSURE VESSELS

evision: 8	0° <u>58</u> db 2 0° <u>50</u> db 2	Zone III Axi	al	Zone II	MOZZLE	nfiguration TO U. H Surface: OD	EAD	Exam Start: 1430 Ex Surface Temp. 73 • F MCDE- Pyrometer s/n: 27010 Cal. Due Date: 427 00	Calibration Sheet No: 9902106 9902107 9902108
Indication # L NPT 60° IRT 70°	MP _{max}	% FSH	Lmax	W _{max}	SU LOCATION	BEAM DIRECTION	SCAN L =	REMARKS	S
	\ \							n report is required Item No:BC Moss Level: A ector:MBC	Date: 12-2-99 Date: 12-6-99

	DUKE PO	WER COMPANY		FORM NDE-UT-4
	ISI LIMIT	TATION REPORT		Revision 1
Component/Weld ID: 2-PZR-WP33-2		Item No: B03.110.004	Remarks:	
■ NO SCAN	SURFACE	BEAM DIRECTION	Nozzle Configur	ration
☐ LIMITED SCAN	□ 1 ⊠ 2	□ 1 □ 2 □ cw □ ccw		
		ES FROM WO toBeyond	· .	
ANGLE: □ 0 □ 45 ☒ 60 ☒ Othe	er <u>70°</u>	FROM <u>0</u> DEG to <u>360</u> DEG		
□ NO SCAN	SURFACE	BEAM DIRECTION	Lifting Lug	
□ LIMITED SCAN	⊠ 1 □ 2	□ 1 □ 2 □ cw □ ccw		
FROM L to L	A INCH	ES FROM WO C/L+5" to Beyond		
ANGLE: □ 0 □ 45 図 60 図 Othe	er <u>70</u>	FROM 160 DEG to 200 DEG		
□ NO SCAN	SURFACE	BEAM DIRECTION		
☐ LIMITED SCAN	□ 1 □ 2	□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCH	ES FROM WO to		
ANGLE: □ 0 □ 45 □ 60 □ Othe			i	
□ NO SCAN	SURFACE	BEAM DIRECTION		
☐ LIMITED SCAN	□ 1 □ 2	□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCH	ES FROM WO to		
ANGLE: 0 0 45 0 60 0 0 he			•	
Prepared By: Jay Eaton		II Date: 12/2/99 Sketch(s) attached D	 ☑ yes □ no	Sheet 2 of 9
Reviewed By: Parid C 2	Date:			Date: /2-4-99

Attachment C
Page 21 of 52
Request for Relief 00-01

		NDE-91-1								
Lir	Limited Examination Coverage Worksheet									
		Examinati	ion Volum	e/Area Defi	ned					
☑ Base Metal	☐ Base Metal ☐ Weld ☐ Near Surface ☐ Boltin									
Ar	ea Calcula	ation			Volume Ca	lculati	on			
		Cov	verage Ca	lculations						
Scan # Angle ը	Beam Direction	Area Examined (sq.in.)	Length Examine (in.)		ed Requ	iired	Percent Coverage			
60				38.7			0.00			
70				35.5 72.2			0.00 0.00			

Aggregate %

74.2 / 2 = 37.1%

		Item N	lo: B03.110.004
Prepared By: Larry Mauldin Law Mauldus	Level:	111	Date: 12/2/99
Reviewed By: Darril (3)	Level:	T	Date: ₁ て(3/99

Attachment C Page 22 of 52 Request for Relief 00-01

			NDE-91-1				
			Revision 0				
Section and sections	Examination Volume/Area Defined						
⊠ Bas	☐ Base Metal ☐ Weld ☐ Near Surface ☐ Boltin						☐ Inner Radius
		Volume Cal	culation				
(See Exam Area Drwg.) 23.6 sq.in. X 21.6 in.= 509.76 cu.in.						cu.in.	
Zone 2 & 3 23.6 sq.in.							·
			Cov	rerage Ca	lculations		
Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Length Examine (in.)		Volu d Requi (cu.i	ired Percent Coverage
1	60	2	19.2	21.6	414.72	509.	76 81.36
2	60	1	.1	21.6	2.16	509.	76 0.42
3	60	CW	8.6	21.6	185.76	509.	76 36.44
4	60	CCW	8.6	21.6	185.76	509.	76 36.44
					788.4	2039	.04 38.67

38.7%

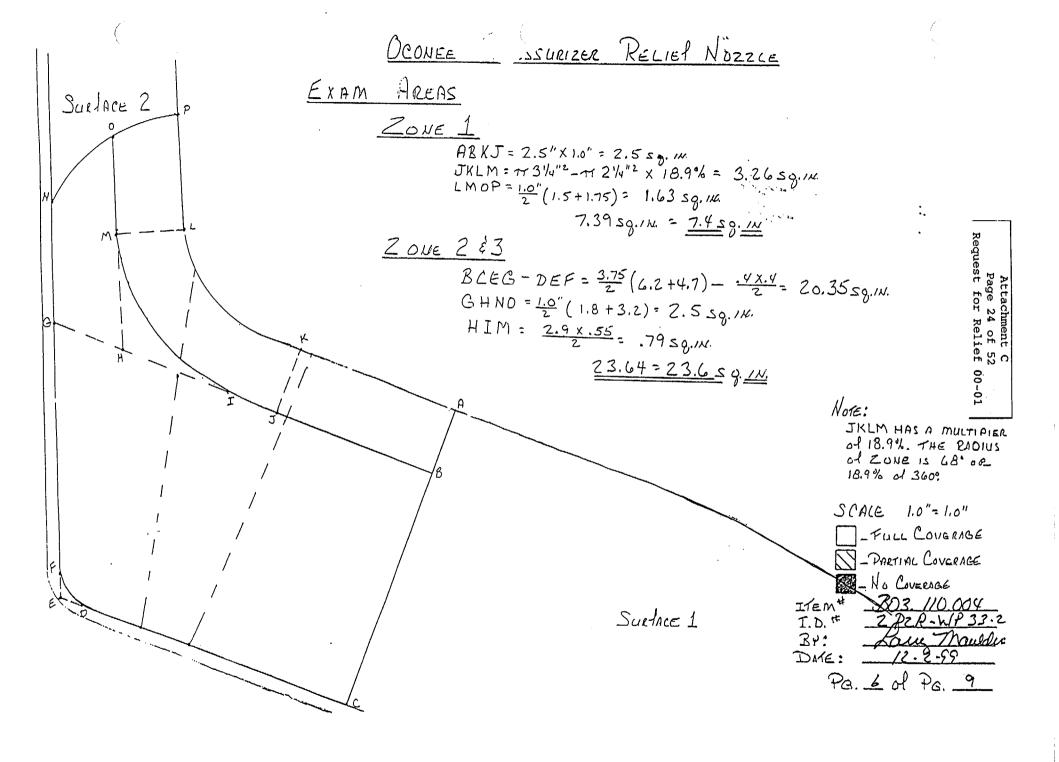
		Item No: B03.110.004
Prepared By: Larry Mauldin January Mauldin	Level: III	Date: 12/2/99
Reviewed By: Pawalk. 3	Level: <u>I</u>	Date: 12/3/99

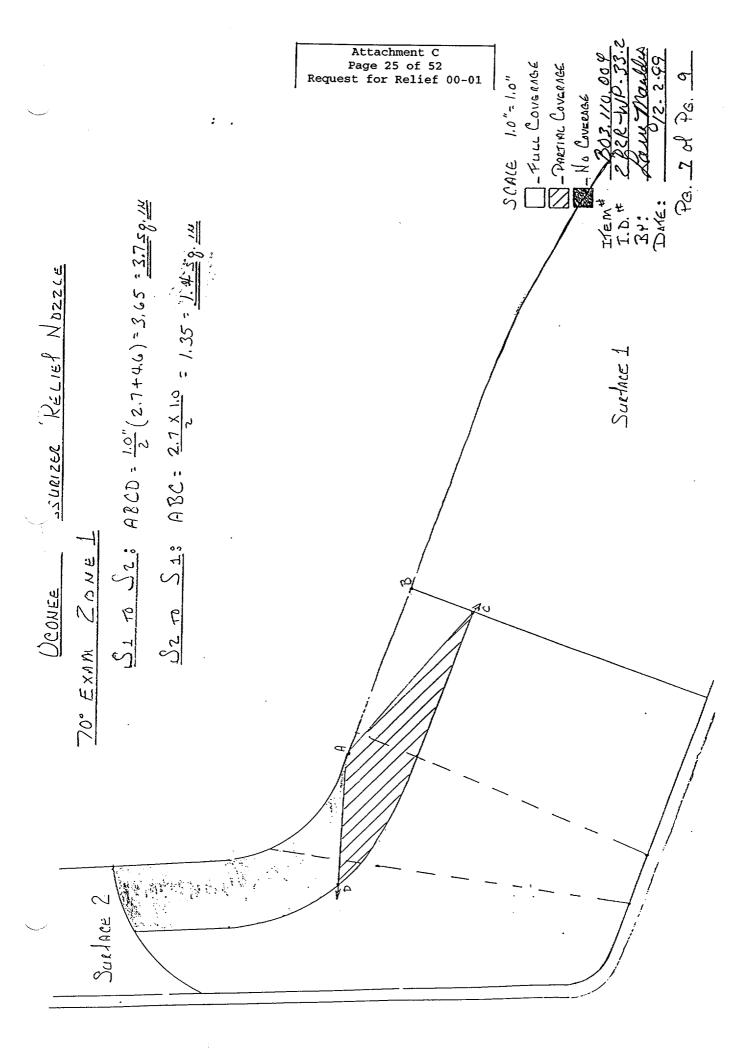
Attachment C Page 23 of 52 Request for Relief 00-01

			NDE-9	1-1				
		Limited Exa	amination Co	verage Wor	ksheet		Revisio	n 0
			Examinati	ion Volume/	Area Define	1		
⊠ Bas	☐ Base Metal ☐ Weld ☐ Near Surface ☐ Bolting							Radius
		culation						
(See Ex	cam Area	Dfwg.)		7.4	sq.in. X 21.6 ir	n.= 159.84	cu.in.	
Zone 1	·	7.4 sq.ii	n.					
_		. .	Cov	/erage Calc	ulations			
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volu Requ (cu.i	red Percent (Coverage
1	70	2	3.7	21.6	79.92	159.	84 5	0.00
2	70	1	1.4	21.6	30.24	159.	84 1	8.92
3	70	cw	2.7	21.6	58.32	159.	84 30	3.49
4	70	CCW	2.7	21.6	58.32	159.	. 36	3.4 9
					226.8	639.	36 39	5.47

35.5%

		Item No:	B03.110.004
Prepared By: Larry Mauldin Law Mauldis	Level: III		Date: 12/2/99
Reviewed By: Daviel K. 2	Level: II		Date: 17/3/99





DUKE POWER COMPANY ULTRASONIC DATA SHEET FOR PLANAR REFLECTORS IN FERRITIC PRESSURE VESSELS

Procedure N NDE-6Ze Revision: E FC NA	2 70 2 60	° <u>80</u> dв :	Scans Zone I 60° Zone III Axi Zone III Circ	80 dB 2		NOZZLE	nfiguration TO U. 1 Surface: OD		Exam Start: 1430 E Surface Temp. 73 • F MC DE- Pyrometer s/n: Z7010 Cal. Due Date: 4 27 00	Calibration Sheet No: 9907106 9907108
Indication # NRT NRT	2 60° 70°	MP _{max}	% FSH	Lmax	Wmax	SU LOCATION	DEAM DIRECTION	SCAN	REMAR	XS .
		١ ١	dined: ye			(see ND)	E-UT-4) Lin Examiner: Authorized	nitation Hau	Item No: B Moss Level: 75 ctor: MBC	03.110,005 Date: 12.2.99 Date: 12-6-99

Attachment C
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Request for Relief 00-01

	DUKE POWER CO	MPANY	The Samuel Control	FORM NDE-UT-4			
	ISI LIMITATION REI	PORT		Revision 1			
Component/Weld ID: 2-PZR-WP33-1	Component/Weld ID: 2-PZR-WP33-1 Item No: B03.110.005						
☑ NO SCAN	SURFACE	BEAM DIRECTION	Nozzle Configura	ation			
☐ LIMITED SCAN	□ 1 ⊠ 2 ⊠	1 ⊠ 2 ⊠ cw ⊠ ccw					
FROM L N/A to L N/A	INCHES FROM WO	C/Lto Beyond					
ANGLE: □ 0 □ 45 図 60 図 Other							
□ NO SCAN		BEAM DIRECTION					
☐ LIMITED SCAN	□ 1 □ 2 □	1 □ 2 □ cw □ ccw					
FROM L to L	INCHES FROM WO	to					
ANGLE: □ 0 □ 45 □ 60 □ Other							
		BEAM DIRECTION					
☐ LIMITED SCAN	□ 1 □ 2 □	1 🗆 2 🗆 cw 🗆 ccw					
FROM L to L	INCHES FROM WO	to					
ANGLE: □ 0 □ 45 □ 60 □ Other		OM DEG to DEG					
□ NO SCAN	SURFACE	BEAM DIRECTION					
☐ LIMITED SCAN	□ 1 □ 2 □	1 🗆 2 🗆 cw 🗆 ccw					
FROM L to L	INCHES FROM WO	to					
ANGLE: □ 0 □ 45 □ 60 □ other		DM DEG to					
Prepared By: Jay Eaton		12/2/99 Sketch(s) attached ⊠	yes □ no				
Reviewed By: Parcel K. 2	Date: 12/3/99			Date: /2-6-99			

Attachment C

Attachment C Page 30 of 52 Request for Relief 00-01

				NDE-91-1					
Limited Examination Coverage Worksheet									Revision 0
			Exa	minatio	n Volume/	Area Define	ed		
⊠ Ba	☐ Base Metal ☐ Weld ☐ Near Surface ☐ Bolting					☐ Bolting	1	☐ Inner Radius	
		Area Ca	lculation			\	/olume Ca	lculat	tion
				Cove	erage Calc	ulations			
Scan#	Angle	Beam Directio	Exar	rea mined q.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volu Requ (cu.i	ired	Percent Coverage
	60					38.7			0.00
	70					35.5			0.00
						72.2			0.00

Aggregate % 74.2 / 2 = 37.1%

		Item No:	B03.110.005
Prepared By: Larry Mauldin	Level:	111	Date: 12/2/99
Reviewed By: David K. 3	Level: ゴ		Date: 12/3/9

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				NDE-91-1					
				Revision 0					
	Examination Volume/Area Defined								
☐ Base Metal ☐ Weld ☐ Near Surface ☐ Bo						Bolting	l	☐ Inner Radius	
		Area Calcul	ation			Vo	lume Ca	culat	ion
(See Exam Area Drwg.) 23.6 sq.in. X 21.6 in.= 509.76 cu.in.					ı .				
Zone 2 & 3 23.6 sq.in.									
			Cov	erage C	alcu	lations			
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Leng Exami (in.	ned	Volume Examined (cu.in.)	Volui Requ (cu.i	red	Percent Coverage
1	60	2	19.2	21.6	3	414.72	509.	76	81.36
2	60	1	.1	21.6	3	2.16	509.	76	0.42
3	60	CM	8.6	21.6	3	185.76	509.	76	36.44
4	60	CCW	8.6	21.6	3	185.76	509.	76	36.44

38.7%

788.4

2039.04

38.67

		Item No:	B03.110.005
Prepared By: Larry Mauldin Law Mauldy	Level:	111	Date: 12/2/99
Reviewed By: Daniel K. Z.	Level:	I	Date: 17/3/49

4009

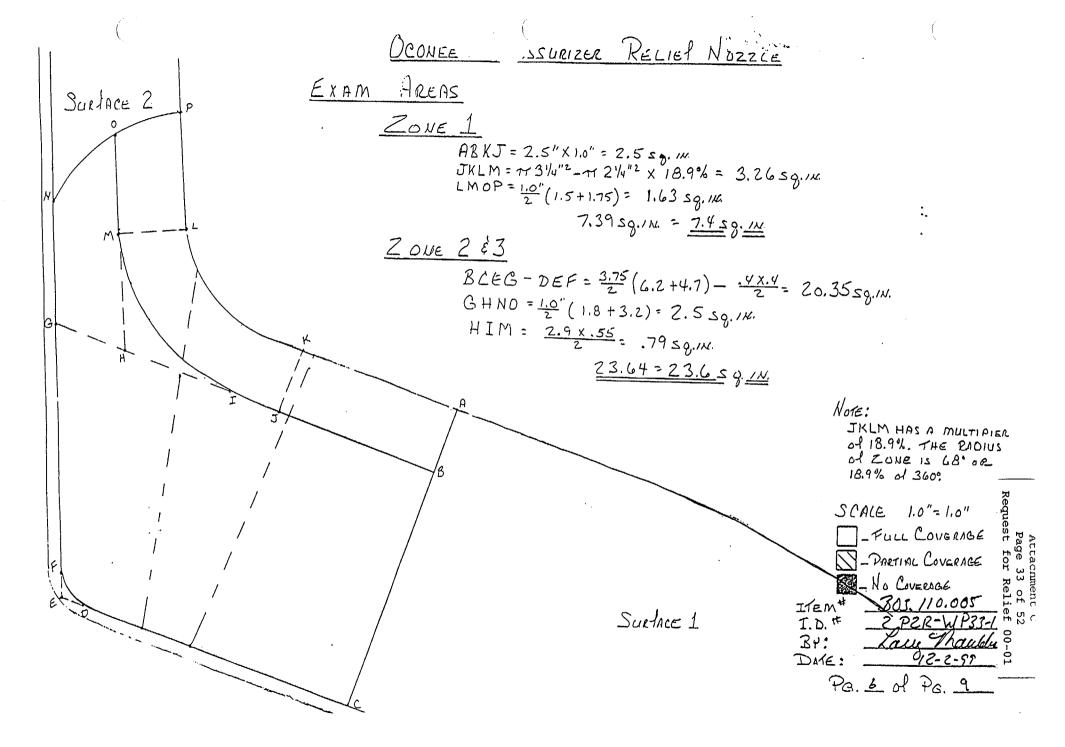
Attachment C
Page 32 of 52
Request for Relief 00-01

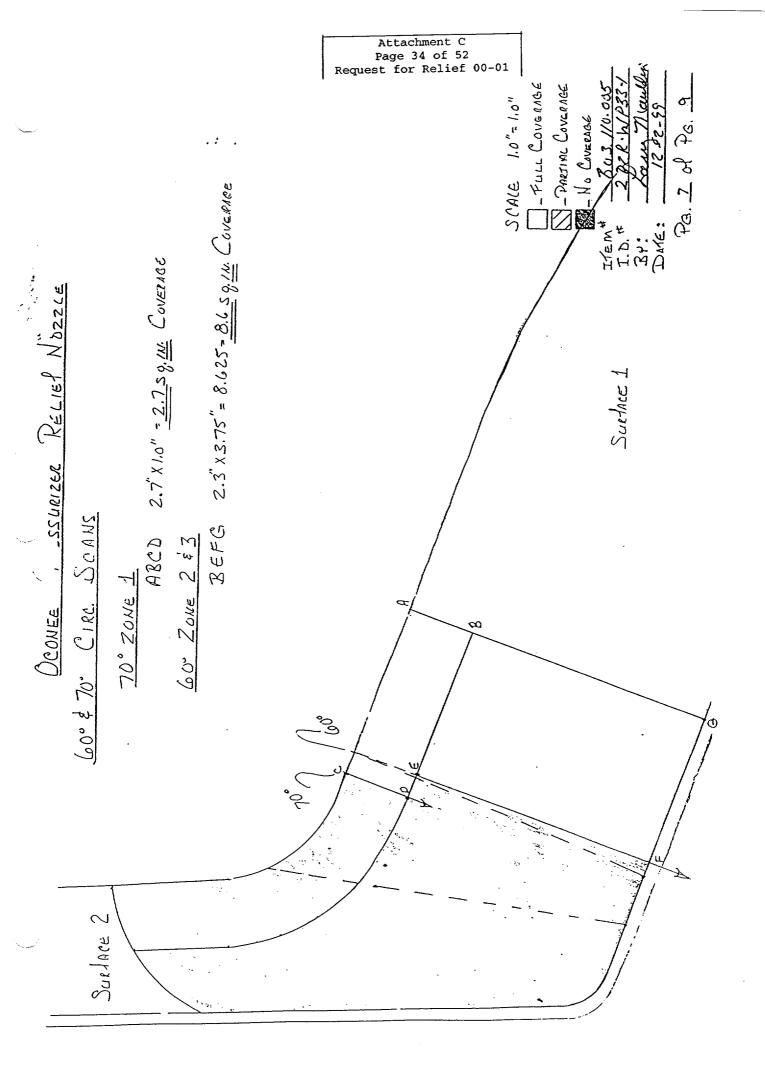
			NDE-91-1							
				Revision 0						
			Examinati	on Volu	ne/Area Do	efined				
⊠ Ba	se Meta	ı ⊠ w	/eld	□ Nea	r Surface	☐ Bolting	9	☐ Inner Radius		
		Area Calcul	ation			Volume Ca	lculati	on		
(See Ex	am Area	Drwg.)			7.4 sq.in. X	21.6 in.= 159.84	cu.in.			
Zone 1	·	7.4 sq.in	1.							
			Cov	rerage C	alculations					
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Lengt Examir (in.)	h Volu ned Exam	me Volu	iired	Percent Coverage		
1	70	2	3.7	21.6	79	.92 159	.84	50.00		
2	70	1	1.4	21.6	30	.24 159	.84	18.92		
3	70	CW	2.7	21.6	. 58	.32 159	.84	36.49		
4	70	CCW	2.7	21.6	58	.32 159	.84	36.49		
					22	6.8 639	.36	35.47		

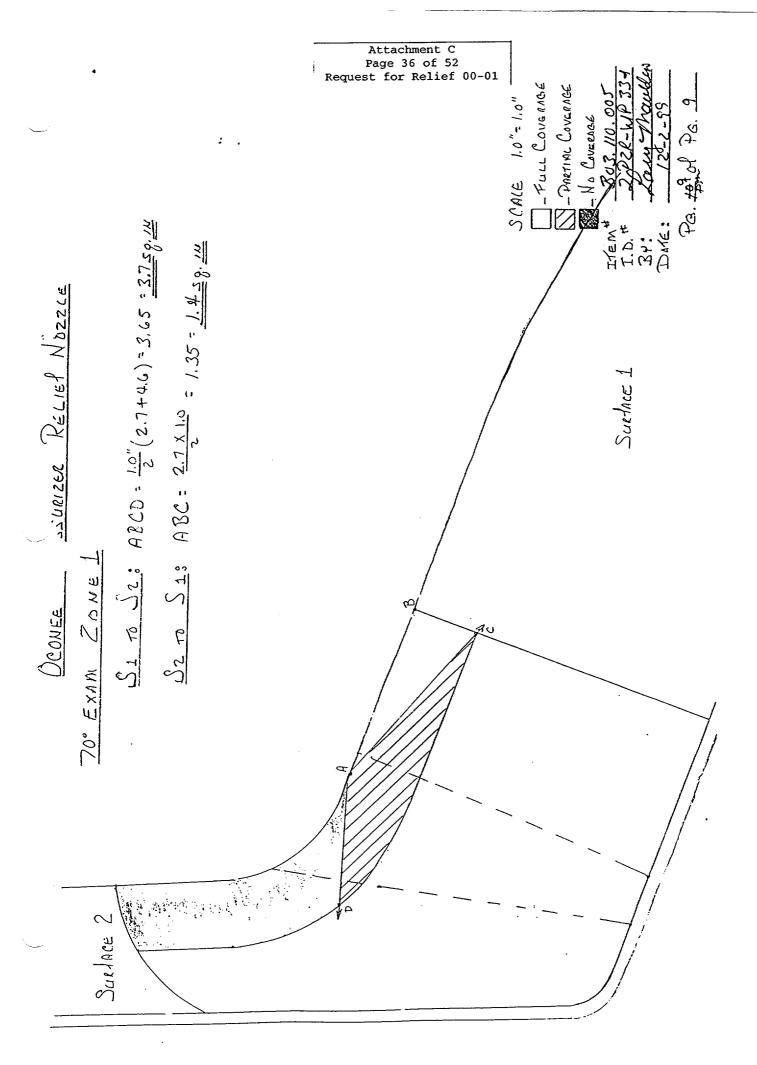
35.5%

	Item No:	B03.110.005
Prepared By: Larry Mauldin Law Mauldy	Level: III	Date: 12/2/99
Reviewed By: David C 2	Level: ፲	Date: 12/3/99
()		` `

5009







12-6-99

			DI	JKE PC	WER (COM	PANY			Exam St	art: 0	831	Form	NDE-U	T-2A
ULT	RASC	NIC E	XAMINA	ATION DA	ATA SHI	EET F	OR PLANA	AR REFLECTORS Exam Finish: 0903			903	Revision 4			
Station	n:	C	CONEE		Unit:	2	Component	:/Weld ID: 2	-SGB-WG	25			Date: 12/2/99		
Weld I	Length	(in.):	152.	.8"	Surface	Condi	tion: A	S GROUND	Lo:	9.2.3	Surface *	Tempera	iture:	73 °	F
				Janie K.			Scans:					er S/N:	MCN		
				FC:	FC: 45T ⊠ 51.5 dB 70 □ NA 60 □dB * 60T □dB				Cal Due:1/21/00 Configuration: Nozzle to Head						
990210	01, 9902	2102						er: <u>0°-22</u>	<u>.5 dB</u> d	В	Skew An	die:		80 only N/A	
IND#	*	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps
			NOT WI HIS SP	1 1		20%d HM/ 50%d 100%	A HMA ac 50%dad	HMA 50%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	_	ł	WRIT	1
	0°	NRI			<u> </u>										
	45°	NRI			**************************************										
Limitat	tions: (95-18, see NC)E-UT-4)	⊠ 90%			erage obtair	ned: yes	l no ⊠				Sheet		of_/3
Reviewed By: Leve								Authorized Inspector:			Date:		Item No: B03.130.006		

DUKE POWER COMPANY										Exam St	Exam Start: 0830		Form NDE-UT-2A		-2A	
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS									Exam Fir	nish: 0	843	Revision 4				
Station	า:	C	CONEE	···	Unit:	2	Com	ponent/V	Veld ID: 2	-SGB-WG	325			Date:	12/2/9	99
Weld I	_ength	(in.):	152.	8"	Surface	Condi	tion:	AS	GROUND	Lo	9.2.3	Surface -	Tempera	ture:	73 °	F
Exami	ner: La	arry Ma	uldin Lau	Maul	Level	: 111	Sc	ans:				Pyromete	er S/N:	MCNI		
Exami	ner: Ja	mes L.	Panel Jam	0	_ Level	: 11	45	5 🗆	dB	70 🗆	dB	Cal Due:1/21/00				
Proced			//	Rev: 0		FC: 45T - dB 70T -			dB	Configuration: _		Nozzle to Head				
					N	NA O M TO TO					Flow _					
Calibra	ation SI	neet N	0:								Scan	to <u>HEAD</u> an Surface: OD				
990210)3					Other: dB			В	I = 4			s to NDE-680 only NA			
IND#	4	Max % Ref	Mp Max	W Max	L Max	L1		L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps
		1	NOT WI	1		20%da HMA 50%da 100%d	ac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac		O NOT		· ·
	60°	NRI														
					· · · · · · · · · · · · · · · · · · ·	I			I		<u>, l</u>			<u> </u>	<u></u>	<u> </u>

Remarks:										
Limitations: (see NDE-UT-4) ⊠ 90% or greater coverage obtained: yes □ no ☒ Sheet 2 of /3										
Reviewed By: Haren Moss	Level:	Date:	Authorized Inspector:	Date:	Item No:					
, vary 117022	I 12.3.99		YMBC.	12-4-99	B03.130.006					

		FORM NDE-UT-4		
Component/Weld ID: 2-SGB-WG25	ISI LIMITATION RI		<u> </u>	Revision 1
	ıtem	No: B03.130.006	Remarks:	
☑ NO SCAN	SURFACE	BEAM DIRECTION	DUE TO NOZZL	E CONFIGURATION
☐ LIMITED SCAN	⊠ 1 □ 2	☐ 1 ☐ 2 ☐ cw ☐ ccw		
FROM LNA to LNA	INCHES FROM W	O 2.0" to BEYOND		
ANGLE: 図 0 図 45 図 60 ☐ Other				
□ NO SCAN		BEAM DIRECTION		
☐ LIMITED SCAN		□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCHES FROM W	0 to		
ANGLE: 0 0 45 0 60 0 Other	F	ROM DEG to DEG		
□ NO SCAN		BEAM DIRECTION		
☐ LIMITED SCAN		□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCHES FROM W	O to		
ANGLE: 0 0 45 0 60 0 Other				
□ NO SCAN		BEAM DIRECTION		
□ LIMITED SCAN	□ 1 □ 2 □	□ 1 □ 2 □ cw □ ccw		
FROM L to L	INCHES FROM WO	0 to		
ANGLE: □ 0 □ 45 □ 60 □ Other				ĺ
Prepared By: Larry Mauldin June Tha			yes □ no	Sheet 3 of /3
Reviewed By: Hay Mos	Date: 12.3-99	Authorized Inspector: 4m/		Date: /2-6-99

Attachment C
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Request for Relief 00-01

		NDE-91-1							
			Revision 0						
			Examinati	on Volume	/Area Defined				
⊠ Ba	se Metal	□ v	Veld	□ Near S	urface I	□ Bolting	☐ Inner Radius		
		Area Calcu	lation		Vo	olume Cal	culation		
(See E	xam Area	Drwg.) 73.7 s	q. in.	73.	7 sq.in. X 152.8	n in.= 1126	61.36 = 11261.4 cu.in.		
			Cov	erage Calc	ulations				
Scan#	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volur Requi (cu.i	red Percent Coverage		
1	0°	NA	40.6	152.8	6203.7	1126	1.4 55.09		
2	45°	1 &/or 2	48.9	152.8	7471.9	1126	1.4 66.35		
3	60°	1 &/or 2	53	152.8	8098.4	1126	1.4 71.91		
4	45°/60°	CW	39.2	152.8	5989.8	11261	1.4 53.19		
5	45°/60°	ccw	39.2	152.8	5989.8	11261	1.4 53.19		
					33753.6	5630	7 59.95		

59.95 = 60 %

		Item No:	B03.130.006
Prepared By: Larry Mauldin Laux Mauldus	Level:	III	Date: 12/2/99
Reviewed By: Man Moss	Level:	I	Date: 12-3-99
/(4 06 13

Attachment C Page 41 of 52 Request for Relief 00-01

DUKE POWER COMPANY								NDE-91-1		
			Revision 0							
Examination Volume/Area Defined										
□ Bas	se Metal	ı ⊠ v	Veld	☐ Near Surface ☐ Bolting			ı	☐ Inner Radius		
•		Area Calcu	lation		V	olume Ca	lcula	tion		
(See	Exam Ar	ea Drwg.)		18	sq.in. X 152.8 i	n. = 2750.4	l cu.i	n.		
		18 sq.in.								
			Cov	erage Calc	ulations	 				
			Area	Length	Volume	Volu	mo			
Scan #	Angle	Beam Direction	Examined (sq.in.)	Examined (in.)	Examined (cu.in.)	Requi (cu.i	ired	Percent Coverage		
1	0°	NA	15.7	152.8	2399	2750	0.4	87.22		
2	45°	2	16.1	152.8	2460.1	2750).4	89.45		
3	45°°	1	3.4	152.8	519.5	2750).4	18.89		
4	60°	2	16.9	152.8	2582.3	2750).4	93.89		
5	60°	1	1.0	152.8	15.3	2750).4	0.56		
6	45°	CW	8.4	152.8	1283.5	2750).4	46.67		
7	45°	CCW	8.4	152.8	1283.5	2750).4	46.67		
8	60°	CW	8.4	152.8	1283.5	2750).4	46.67		
9	60°	CCW	8.4	152.8	1283.5	2750).4	46.67		
					13247.7	2475	3.6	53.52		

53.5%

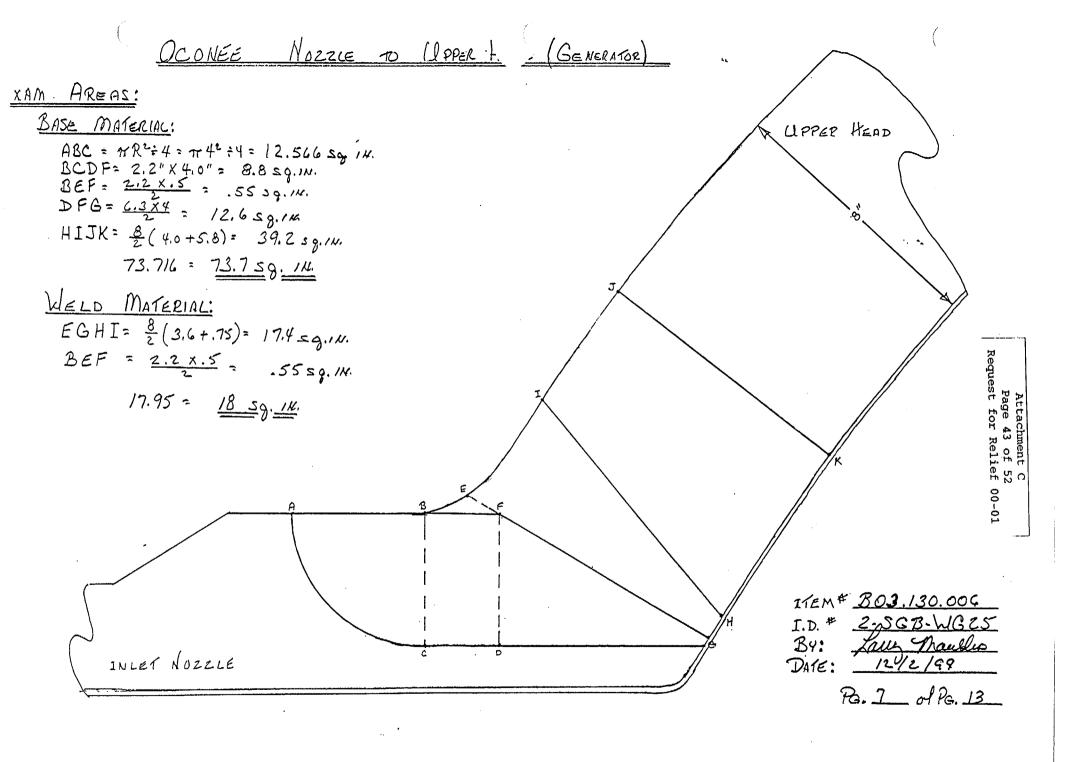
		Item No:	B03.130.006	
Prepared By: Larry Mauldin Laus Meuldur	Level: II	1	Date: 12/2/99	
Reviewed By: Hay Moss	Level: I		Date: 12.3.99	
			5 of	· 13

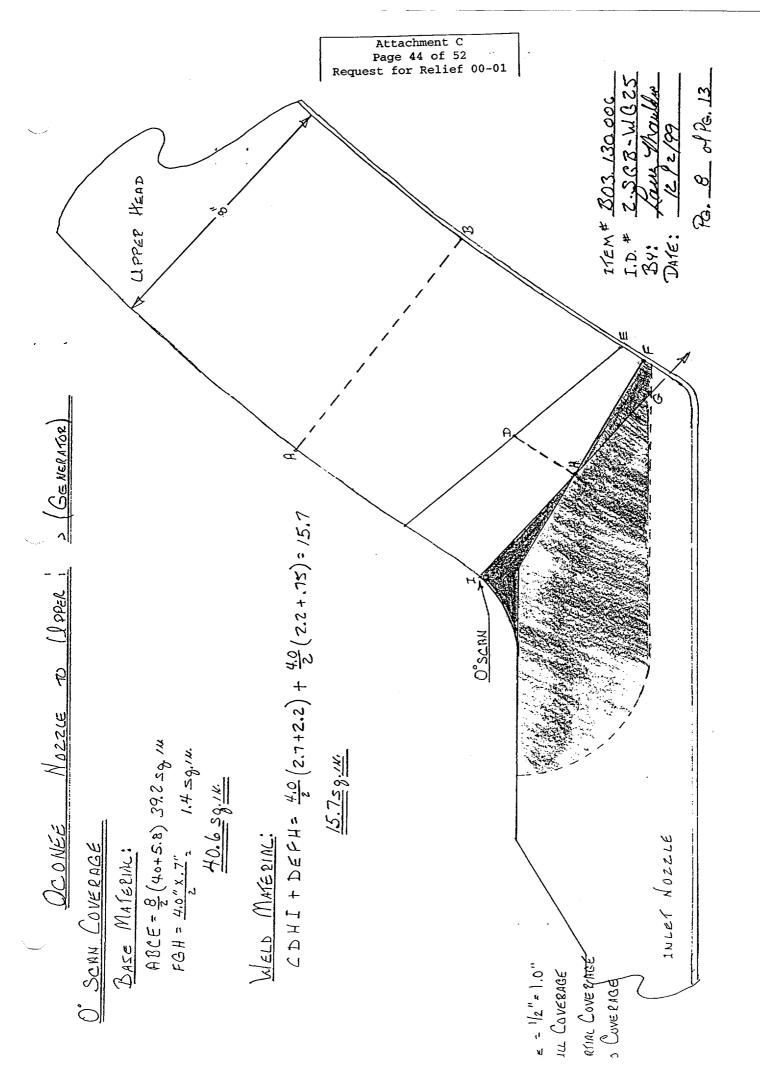
Attachment C Page 42 of 52 Request for Relief 00-01

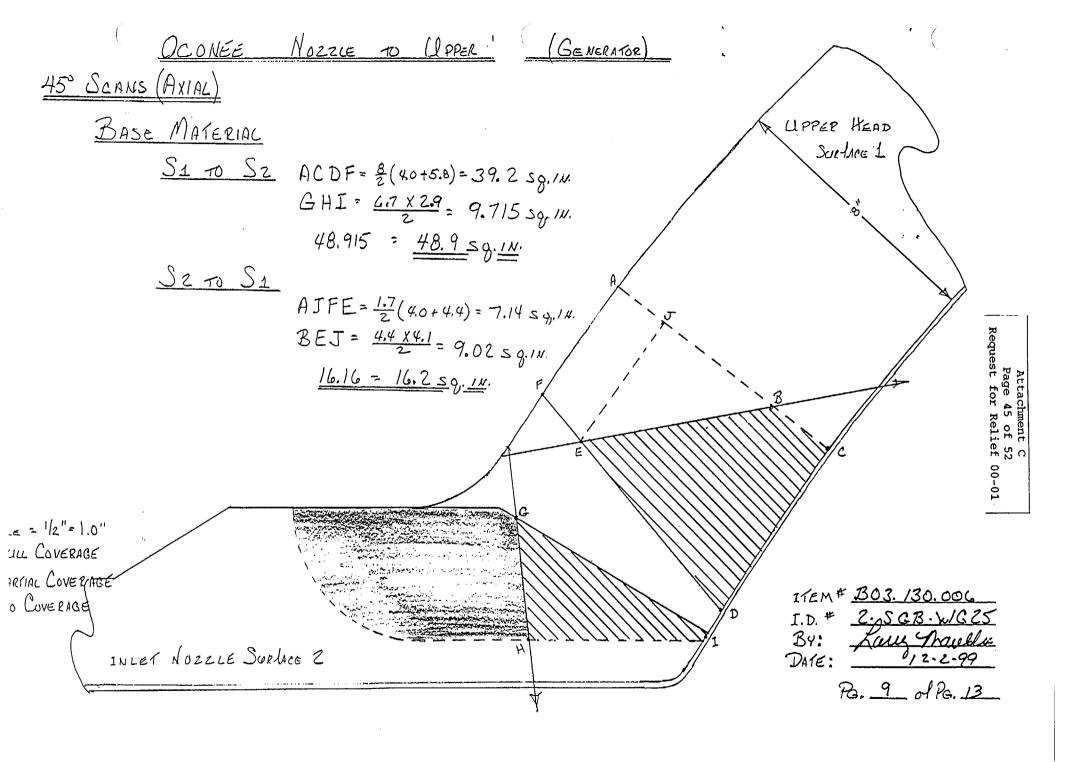
DUKE POWER COMPANY								NDE-91-1		
	Limited Examination Coverage Worksheet								Revision 0	
	Examination Volume/Area Defined									
⊠ Ba	☐ Base Metal ☐ Weld ☐ Nea					Surface			☐ Inner Radius	
		Area Ca	lculation			V	olume Cal	culati	on	
	12.									
				Coverage (Calcul	ations				
Scan#	Angle	Beam Direction	Are Exami n (sq.i	ned Exam	ined	Volume Examined (cu.in.)	Volur Requi (cu.i	red	Percent Coverage	
	Base					33753.6	5630		59.95	
	Weld					13247.7 47001.3	2475 8106		53.52 57.98	

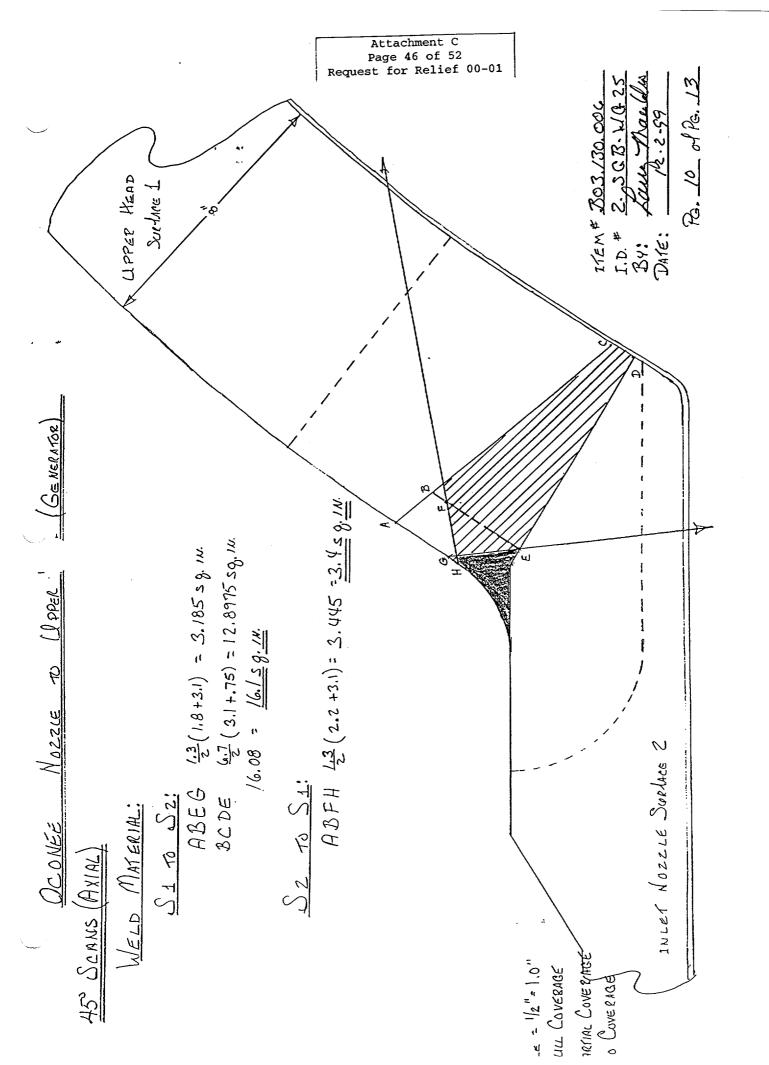
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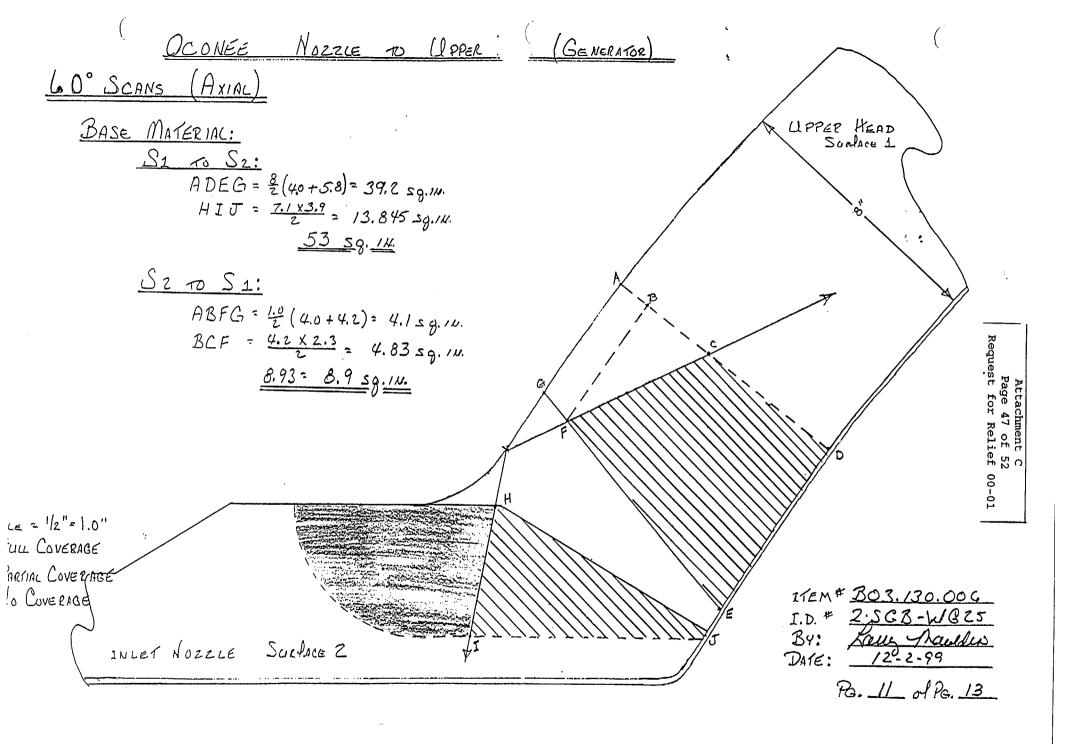
		Item No:	B03.130.006
Prepared By: Larry Mauldin Laux Mauldin	Level:	111	Date: 12/2/99
Reviewed By: Han Moss	Level: 1	_	Date: 12-3-99

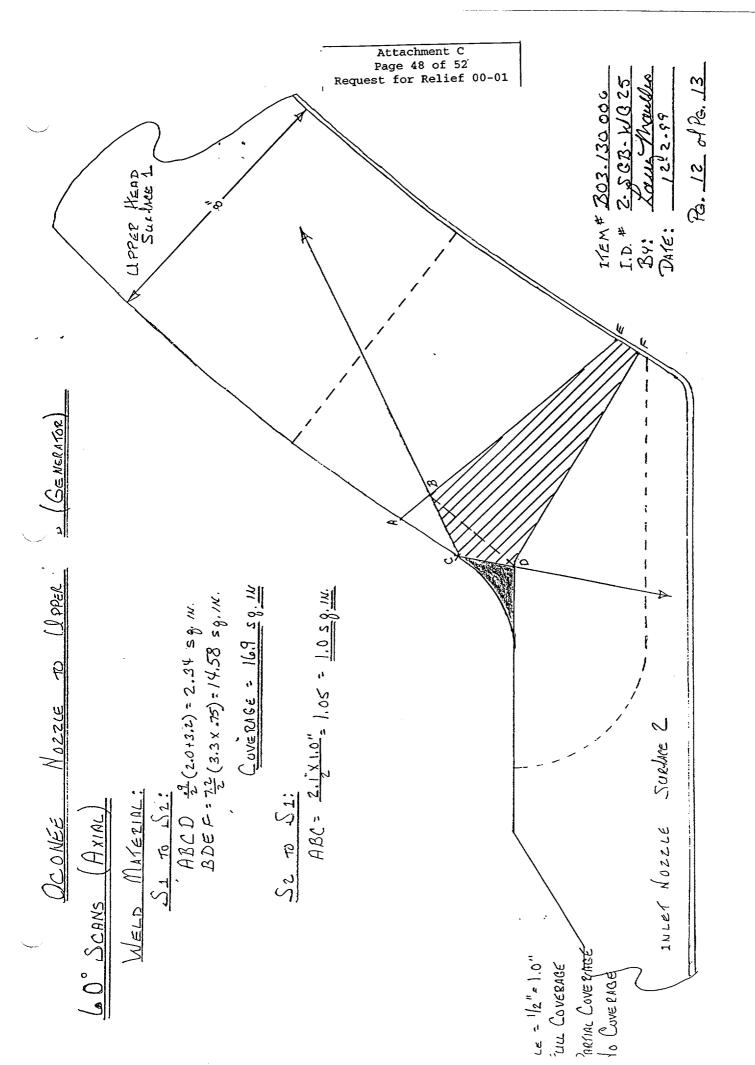


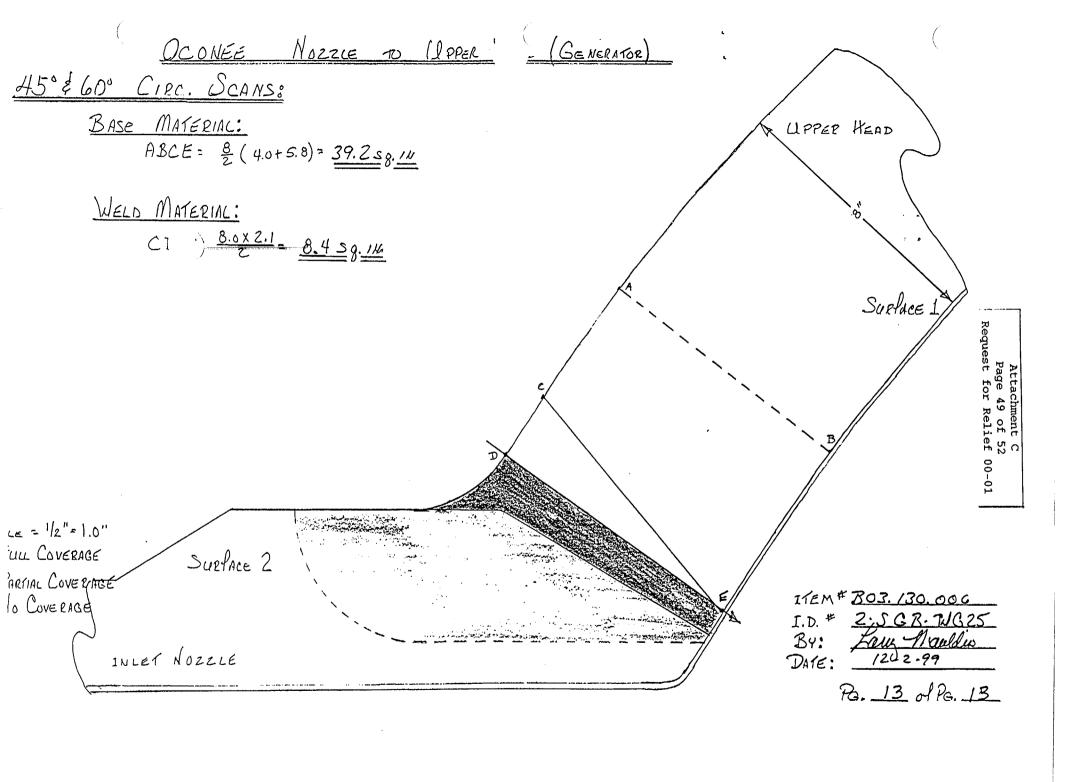












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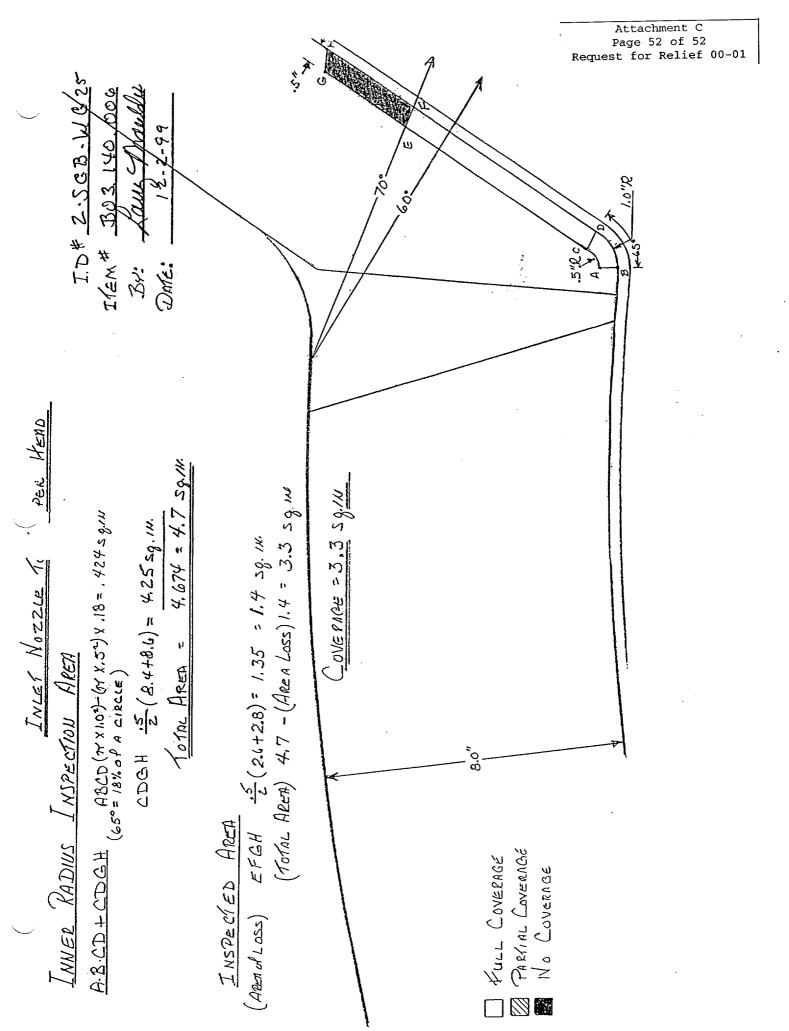
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B03.140.006

DUKE POWER COMPANY Limited Examination Coverage Worksheet									NDE-91-1
			Revision 0						
			Examinati	ion Volu	me/A	Area Defined			
□ Ba	ise Metal	N 🗆	/eld	□ Nea	ır Su	rface [□ Bolting	J	Inner Radius
		Area Calcul	ation			Vo	lume Ca	lculat	ion
(See Attachment) 4.7sq.in.						q.in. X 152.8 in	. [≠] 718.16	ou.ir	
			Cov	erage C	alcu	lations			*****
Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Leng Examir (in.)	ned	Volume Examined (cu.in.)	Volui Requi (cu.i	ired	Percent Coverage
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70.21%

		Item No:	B03.140.006
Prepared By: Larry Mauldin Lans Manta	Level:	111	Date: 12/2/99
Reviewed By: Hay Moss	Level:	I	Date: 12-3-99





October 5, 1995

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

Subject:

Duke Power Company

Oconee Nuclear Station, Units 1, 2, and 3 Docket Nos. 50-269, -270, and -287

Third Ten Year Inservice Inspection Interval

Request for Relief No. 95-04

Pursuant to 10 CFR 50.55a, section (g) (4) (iii), attached is a Request for Relief from ASME Section XI, 1989 Edition. This request is to allow Duke Power to take credit for limited ultrasonic examinations on certain reactor vessel head welds, reactor vessel head-to-flange welds, steam generator nozzle-to-vessel welds, and steam generator nozzle inside radius welds. During the examinations, the ultrasonic examination coverage did not meet the 90% examination coverage requirements of ASME Section XI. Achievement of greater than 90% examination coverage for the subject welds is impractical due to piping geometry, joint configuration, and interferences. All three Oconee units are being addressed by this Request for Relief per recommendations delineated in NRC Inspection Report 95-05 dated 5/5/95.

If there are any questions or further information is needed you may contact D. A. Nix at (803) 885-3634.

Very truly yours,

J. W. Hampton
Site Vice President

Attachment

" rilea on recyclea caper

U. S. Nuclear Regulatory Commission Page 2

xc (w/attch):

Mr. L. A. Wiens

Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission

Washington, DC 20555

xc (w/o attch):

Mr. S. D. Ebneter

Regional Administrator, Region II U. S. Nuclear Regulatory Commission

Mr. P. E. Harmon

Senior NRC Resident Inspector

Oconee Nuclear Station

Mr. Max Batavia

Bureau of Radiological Health

SC Dept. of Health & Environmental Control

2600 Bull St.

Columbia, SC 29201

U. S. Nuclear Regulatory Commission Page 3

bxc (w/ attchs):

V. B. Dixon

R. G. Rouse

D. A. Nix

bxc (w/o attchs):

J. O. Barbour

J. E. Burchfield

B. W. Carney

M. B. Chapman

J. C. Shropshire

ELL ECO50

ISI Relief Request File

Duke Power Company

Station Oconee Unit 1,2 & 3

10-YEAR INTERVAL REQUEST FOR RELIEF NO. 95-04

- I. System/Component(s) for Which Relief is Requested:
 - a. Reactor vessel head welds;

1-RPV-WH5, Item Number B01.021.001 2-RPV-WH5, Item Number B01.021.001

3-RPV-WH5; Item Number B01.021.001

b. Reactor vessel head-to-flange welds:

1-RPV-WH7, Item Number B01.040.001

2-RPV-WH7, Item Number B01.040.001

3-RPV-WH7, Item Number B01.040.001

c. Steam generator nozzle-to-vessel welds:

1-SGA-WG50-2, Item Number B03.130.001

1-SGA-WG50-1, Item Number B03.130.002

2-SGA-WG50-2, Item Number B03.130.003

2-SGA-WG50-1, Item Number B03.130.004

3-SGA-WG50-2, Item Number B03.130.001

3-SGA-WG50-1; Item Number B03.130.002

d. Steam generator nozzle inside radius welds:

1-SGA-WG50-2, Item Number B03.140.001

1-SGA-WG50-1, Item Number B03.140.002

2-SGA-WG50-2, Item Number B03.140.003

2-SGA-WG50-1, Item Number B03.140.004

3-SGA-WG50-2, Item Number B03.140.001

3-SGA-WG50-1, Item Number B03.140.002

II. Code Requirement:

Section XI Table IWB-2500-1, Examination Category B-A, Pressure Retaining Welds In Reactor Vessel, Figure IWB-2500-3, Note 2 requires essentially 100% of the weld length be examined.

Section XI Table IWB-2500-1, Examination Category B-A, Pressure Retaining Welds In Reactor Vessel, Figure IWB-2500-5, Note 2 requires essentially 100% of the weld length be examined.

Section XI Table IWB-2500-1, Examination Category B-D, Full Penetration Welds Of Nozzles In Vessels - Inspection Program B, Figures IWB-2500-7(a) through IWB-2500-7(d) requires essentially 100% of the nozzle weld and radius be examined.

III. Code Requirement from which Relief is Requested:

Relief is requested from the requirement of examining essentially 100% of the weld length. Due to part geometry and actual physical barriers, obtaining even 90% of the weld length as outlined in Code Case N-460 is not possible.

ASME Section V, Article 4, T-441.3.2 Scanning Requirements, 1989 Edition with no addenda as modified by Code Case N-460.

This Paragraph requires scanning of the examination volume(s) using three angle beams and a straight beam from both sides of the weld. When scanning for reflectors parallel to the weld, the angle beams shall be aimed at right angles to the weld axis, with the search unit(s) manipulated so that the ultrasonic beams pass through the entire volume of weld metal. The adjacent base metal in the examination volume must be completely scanned by two angle beams, but need not be completely scanned by both angle beams from both directions (any combination of two angle beams will satisfy the requirement).

When scanning for reflectors transverse to the weld, the angle beam search units shall be aimed parallel to the axis of longitudinal and circumferential welds. The search unit shall be manipulated so that the ultrasonic beams pass through all of the examination volume.

Scanning shall be done in two directions 180 degrees to each other to the extent possible. Areas blocked by geometric conditions shall be examined from at least one direction.

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

IV. Basis for Relief:

Item Number B01.021.001 (3RPV-WH5), RPV Head Weld was examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, 1989 Edition. The additional requirements of Regulatory Guide 1.150, Revision 1, Appendix A were also used in the examination.

Because of geometric conditions, i.e., lifting lugs adjacent to the weld, 81.85% of the near surface volume and 79.85% of the weld and base metal volumes were covered. In order to achieve more coverage of the required volumes the lifting lugs would have to be moved away from the weld area.

Item Number B01.040.001 (3RPV-WH7), RPV Head-to-Flange Weld was examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, 1989 Edition. The additional requirements of Regulatory-Guide 1.150, Revision 1, Appendix A were also used in the examination.

Because of geometric conditions, i.e., single sided access, 63.35% of the near surface volume and 48.55% of the weld and base metal volumes were covered. In order to achieve more coverage of the required volumes, the weld must be at a greater distance from the flange.

Item Numbers B03.130.001 (3-SGA-WG50-2, nozzle weld), B03.130.002 (3-SGA-WG50-1, nozzle weld), B03.140.001 (3-SGA-WG50-2, inside radius) and B03.140.002 (3-SGA-WG50-1, inside radius), Steam Generator A Primary Outlet Nozzle-to-Lower Head Weld were examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, 1989 Edition.

Because of geometric conditions, i.e., single sided access and support skirt location, 15.6% of the required examination volume was covered. In order to achieve more coverage the support skirt would have to be cut away from the nozzle.

All three units for Oconee are being addressed in this request for relief as addressed in NRC correspondence dated May 5, 1995 concerning NRC Inspection Report No. 50-269/95-05, 50-270/95-05, 50-287/95-05.

V. Alternate Examinations or Testing:

Duke Power Company will continue to perform an ultrasonic examination of Item Numbers B01.021.001, 3RPV-WH5, RPV Head Weld and B01.040.001, 3RPV-WH7, RPV Head-to-Flange Weld to the maximum extent practical in accordance with the requirements of ASME Section V, Article 4, 1989 Edition and Regulatory Guide 1.150, Revision 1, Appendix A.

Duke Power Company will continue to perform an ultrasonic examination of Item Numbers B03.130.002, B03.130.001, B03.140.002 and B03.140.001, Steam Generator A Primary Outlet Nozzle-to-Lower Head Weld and Inside Radius to the maximum extent practical in accordance with the requirements of ASME Section V, Article 4, 1989 Edition.

VI. Justification for the Granting of Relief:

As stated above, Duke Power Company will continue to ultrasonically examine the welds and components (inside radius) 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 public health and safety will not be endangered by allowing relief from the aforementioned Code requirements.

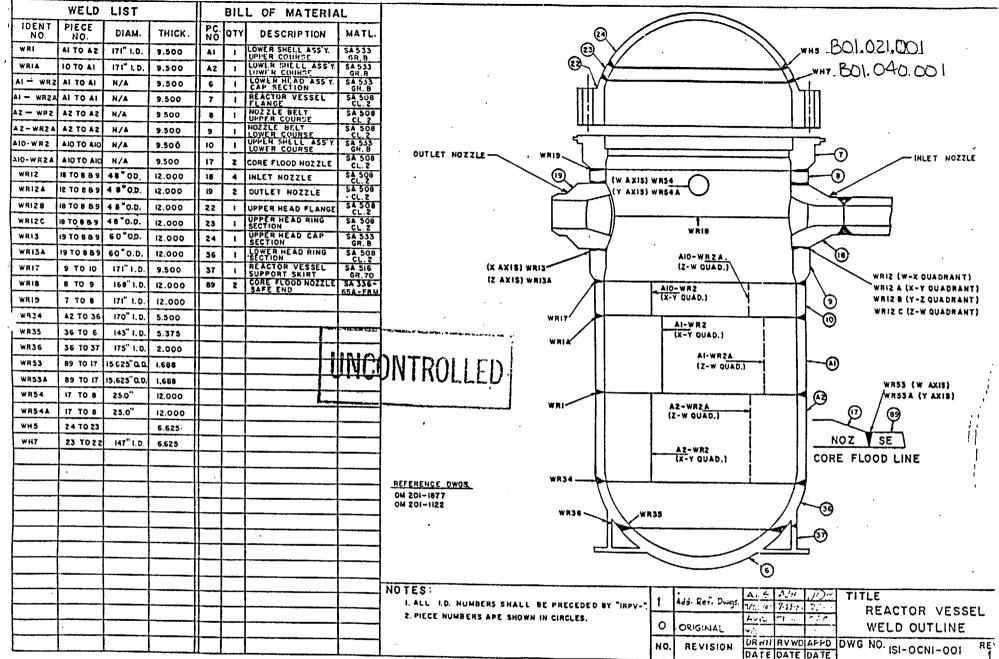
VII. Implementation Schedule:

Unit 3, Refueling Outage 15

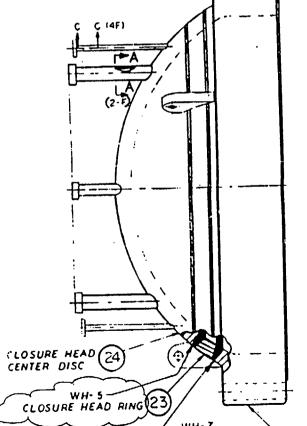
Unit 1, Refueling Outages 16 & 17

Unit 2, Refueling Outage 15

Evaluated By:		_ Date	10/2/95
Reviewed By:	JC Shropshire	_ Date	10/2/95



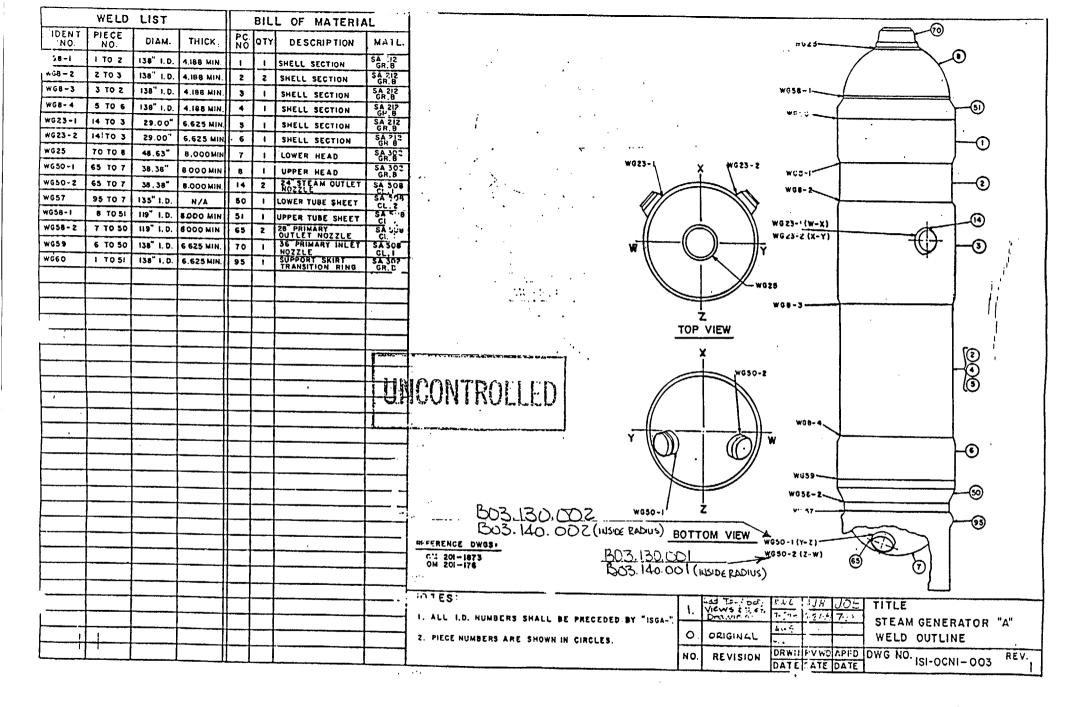
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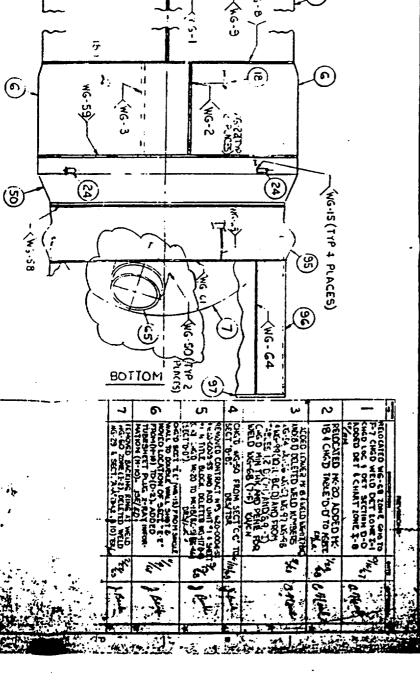
UNCONTROLLED

(22)CLOSURE HEAD

YGE



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8.5M

√WG.9

STEAM CHENERATOR

MELD ID

2-56A-M650-2 2-56A-M650-1

TEM NOS.

Bo3.130.002 Bo3.140.002 803,130,001 803,140,001

FOR GENERAL MOTES SEE MINE NOTES

1. W. HAMPTON Vice President (864)885-3499 Office (864)885-3564 Fax



DUKE POWER

February 27, 1996

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

Subject: Duke Power Company

Oconee Nuclear Station, Units 1, 2, and 3

Docket Nos. 50-269, -270, and -287

Third Ten Year Inservice Inspection Interval

Request for Relief No. 95-04 Supplemental Information

Per a telephone conference on February 12, 1996, the NRC requested additional information to clarify information provided in Request for Relief 95-04 dated October 5, 1995. Please find attached the additional information in support of the request for relief.

If there are any questions or further information is needed you may contact D. A. Nix at (803) 885-3634.

Very truly yours,

J. W. Hampton Site Vice President

Attachment

U. S. Nuclear Regulatory Commission February 27, 1996 Page 2

xc (w/attch): Mr. L. A. Wiens Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, DC 20555

> Attn: Mike Anderson Lockheed of Idaho 2351 North Boulevard Idaho Falls, ID, 83415-2209

xc(w/o attch): Mr. S. D. Ebneter Regional Administrator, Region II U. S. Nuclear Regulatory Commission

> Mr. P. E. Harmon Senior NRC Resident Inspector Oconee Nuclear Station

Mr. Max Batavia
Bureau of Radiological Health
SC Dept. of Health & Environmental Control
2600 Bull St.
Columbia, SC 29201

U. S. Nuclear Regulatory Commission February 27, 1996 Page 3

bxc (w/ attchs):

T. J. Coleman

R. G. Rouse

D. A. Nix

bxc (w/o attchs):

J. O. Barbour

J. E. Burchfield

B. W. Carney M. B. Chapman

J. C. Shropshire

ELL ECO50

ISI Relief Request File

Attachment

Questions and Answers

- 1. Please verify for the welds identified in Part I of the request for relief, that the physical configuration, including interferences, is identical for Units 1, 2, and 3. This request for verification is because technical information is only provided for Unit 3 in the request for relief.
- A: For the welds identified in Part I of the request for relief, the physical configuration, including interferences, is identical for Units 1, 2, and 3. This conclusion is based on a combination of drawing reviews and field experience.
- 2. In Section V of the request for relief, you identify the alternate examinations that you will perform on Unit 3 Reactor Pressure Vessel (RPV) welds. However, since the request for relief is also for the same welds on Units 1 and 2, please confirm that the alternate examinations you have specified in Section V for Unit 3 will also be performed for Units 1 and 2.
- A: Duke Power Company will also continue to perform ultrasonic examination of Item Numbers B01.021.001 (RPV Head Weld) and B01.040.001 (RPV Head-to-Flange Weld) for Units 1 and 2, to the maximum extent practical in accordance with the requirements of ASME Section V, Article 4, 1989 Edition, and Regulatory Guide 1.150, Revision 1, Appendix A.
- 3. In Section V of the request for relief, you identify the alternate examinations that you will perform on Units 1 and 3 Steam Generator A welds, but no mention is made regarding alternate examinations on the similar Unit 2 welds. Do you intend to perform the same alternate examinations on the Unit 2 welds identified in Section I, parts c and d?
- A: Due to an administrative oversight, the Unit 2 Steam Generator A welds identified in Section I, parts c and d, were not included in Section V of the request for relief. Therefore, the following statement should be added to Section V of the existing request for relief:

Duke Power Company will also continue to perform an ultrasonic examination of Item Numbers B03.130.003, B03.130.004, B03.140.003, and B03.140.004 (Steam Generator A Primary Outlet Nozzle-to-Lower Head Weld and Inside Radius), for Unit 2, to the maximum extent

practical in accordance with the requirements of ASME Section V, Article 4, 1989 Edition.

- 4. In Section IV of the request for relief, you specify the percent coverage for the Unit 3 welds only. No examinations have yet been performed this interval on the corresponding similar Unit 1 and 2 welds which are also identified in this request for relief. Since our evaluation which supports approval of the request for relief is dependent in part on the percent coverage achieved for the welds, it would appear that case by case relief would still be necessary should corresponding welds on Units 1 and 2 receive less coverage than those described for Unit 3.
- A: Duke concurs that coverage on corresponding identical Unit 1 and 2 welds should be greater than or equal to the coverages approved for Unit 3 in the request for relief. Accordingly, if the coverages for corresponding identical welds on Unit 1 or 2 are less than those approved for Unit 3, then additional request for relief will be filed on an individual basis for these welds.



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001 May 3, 1996

Mr. J. W. Hampton Vice President, Oconee Site Duke Power Company P.O. Box 1439 Seneca. SC 29679

SUBJECT:

OCONEE NUCLEAR STATION, UNIT 1 - THIRD TEN-YEAR INTERVAL INSERVICE INSPECTION REQUEST FOR RELIEF NO. 95-04 (TAC NOS. M93944, M93945,

AND M93946)

Dear Mr. Hampton:

By letter dated October 5, 1995, you submitted Request for Relief No. 95-04 from certain ASME Code requirements that you determined to be impractical to perform at Oconee Nuclear Station, Units 1, 2, and 3, during the third 10-year interval inservice inspection. Supplemental information was provided in your submittal dated February 27, 1996. Relief was requested from the requirements of Section XI of the ASME Code to perform a volumetric examination of greater than 90 percent of the weld area for the specific welds covered by this request. Performance of the Code-required examination coverage is precluded by component interfaces. To meet the Code requirements, extensive design modifications would be necessary to provide access for examination. We note that in the case of Oconee Units 1 and 2, the percent of coverage obtainable for the subject welds was estimated based on examinations performed on equivalent Oconee Unit 3 components. If the actual examination coverage for Units 1 and 2 is less than this estimate, you must submit a new request for relief based on the actual coverage obtained.

The NRC staff, with technical assistance from its contractor, the Idaho National Engineering Laboratory, has reviewed and evaluated your request and has concluded that certain requirements of the Code are impractical. The staff has determined that the extent of coverage obtained for the specific welds covered by this request provides reasonable assurance of the structural reliability and operational readiness of the reactor pressure vessel welds and steam generator nozzle welds. Therefore, pursuant to 10 CFR 50.55a(g)(6)(i), for Unit 3, relief is granted as requested for Request for Relief 95-04 and, for Units 1 and 2, relief is granted provided that the examination coverage for welds at Units 1 and 2 is as much as that estimated using Unit 3 examinations. The staff's evaluation and conclusions are contained in the enclosed Safety Evaluation. This relief 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 that could result if the requirements were imposed on your facility.

Sincerely,

Herbert N. Berkow, Director Project Directorate II-2

Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Docket Nos. 50-269, 50-270 and 50-287

Enclosure: Safety Evaluation

cc w/encl: See next page

Mr. J. W. Hampton Duke Power Company

cc: Mr. Paul R. Newton Legal Department (PBO5E) Duke Power Company 422 South Church Street Charlotte, North Carolina 28242-0001

J. Michael McGarry, III, Esquire Winston and Strawn 1400 L Street, NW. Washington, DC 20005

Mr. Robert B. Borsum B&W Nuclear Technologies Suite 525 1700 Rockville Pike Rockville, Maryland 20852-1631

Manager, LIS NUS Corporation 2650 McCormick Drive, 3rd Floor Clearwater, Florida 34619-1035

Senior Resident Inspector U. S. Nuclear Regulatory Commission Route 2, Box 610 Seneca, South Carolina 29678

Regional Administrator, Region II U. S. Nuclear Regulatory Commission 101 Marietta Street, NW. Suite 2900 Atlanta, Georgia 30323

Max Batavia, Chief Bureau of Radiological Health South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

County Supervisor of Oconee County Walhalla, South Carolina 29621

Oconee Nuclear Station

Mr. Ed Burchfield Compliance Duke Power Company Oconee Nuclear Site P. O. Box 1439 Seneca, South Carolina 29679

Ms. Karen E. Long Assistant Attorney General North Carolina Department of Justice P. O. Box 629 Raleigh, North Carolina 27602

Mr. G. A. Copp Licensing - EC050 Duke Power Company 526 South Church Street Charlotte, North Carolina 28242-0001

Dayne H. Brown, Director
Division of Radiation Protection
North Carolina Department of
Environment, Health and
Natural Resources
P. O. Box 27687
Raleigh, North Carolina 27611-7687



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION OF THE THIRD TEN YEAR INTERVAL INSERVICE INSPECTION PROGRAM PLAN REQUEST FOR RELIEF NO. 95-04

FOR

DUKE POWER COMPANY

OCONEE NUCLEAR STATION UNITS 1, 2, and 3

DOCKET NOS. 50-269, 50-270, AND 50-287

1.0 INTRODUCTION

The Technical Specifications for Oconee Nuclear Station, Units 1, 2, and 3 state that the inservice inspection of the American Society of Mechanical Engineers (ASME) Code Class 1, 2, and 3 components shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by Title 10 of the Code of Federal Regulations (10 CFR) 50.55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50.55a(g)(6)(i). Section 50.55a(a)(3) states that alternatives to the requirements of paragraph (g) may be used, when authorized by the NRC, if (i) the proposed alternatives would provide an acceptable level of quality and safety or (ii) compliance with the specified requirements would result in hardship or unusual difficulties without a compensating increase in the level of quality and safety.

Pursuant to 10 CFR 50.55a(g)(4), ASME Code Class 1, 2, and 3 components (including supports) shall meet the requirements, except the design and access provisions and the preservice examination requirements, set forth in the ASME Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," to the extent practical within the limitations of design, geometry, and materials of construction of the components. The regulations require that inservice examination of components and system pressure tests conducted during the first 10-year interval and subsequent intervals comply with the requirements in the latest edition and addenda of Section XI of the ASME Code incorporated by reference in 10 CFR 50.55a(b) 12 months prior to the start of the 120-month interval, subject to the limitations and modifications listed therein. The applicable edition of Section XI of the ASME Code for the Oconee Nuclear Station, Units 1, 2, and 3 third 10-year inservice inspection (ISI) interval is the 1989 Edition. The components (including supports) may meet the requirements set forth in subsequent editions and addenda of the ASME Code incorporated by reference in 10 CFR 50.55a(b) subject to the limitations . and modifications listed therein and subject to Commission approval.

Pursuant to 10 CFR 50.55a(g)(5), if the licensee determines that conformance with an examination requirement of Section XI of the ASME Code is not practical for its facility, information shall be submitted to the Commission in support of that determination and a request made for relief from the ASME Code requirement. After evaluation of the determination, pursuant to 10 CFR 50.55a(g)(6)(i), the Commission may grant relief and may impose alternative requirements that are determined to be authorized by law, will not endanger life, property, or the common defense and security, and are otherwise in the public interest, giving due consideration to the burden upon the licensee that could result if the requirements were imposed. In a letter dated October 5, 1995, Duke Power Company, submitted to the NRC its Third Ten-Year Interval Inservice Inspection Program Plan Request for Relief No. 95-04 for Oconee Nuclear station, Units 1, 2, and 3. The licensee provided additional information in its letter dated February 27, 1996.

2.0 EVALUATION AND CONCLUSIONS

The staff, with technical assistance from its contractor, the Idaho National Engineering Laboratory (INEL), has evaluated the information provided by the licensee in support of its Third Ten-Year Interval Inservice Inspection Program Plan, Request for Relief No. 95-04 for Oconee Nuclear Station, Units 1, 2, and 3. The licensee provided additional information in its letter dated February 27, 1996.

Based on the information submitted, the staff adopts the contractor's conclusions and recommendations presented in the attached Technical Letter Report. The staff has concluded that performing the Code-required volumetric examinations of the subject areas to the extent required by the Code is impractical for Oconee Nuclear Station, Units 1, 2, and 3. The licensee has proposed to perform the required volumetric examinations on each of the subject welds to the extent practical and the Code-required surface examinations (as applicable). This combination provides reasonable assurance of operational readiness. Therefore, relief is granted for Request for Relief 95-04 (Parts 1 and 2) pursuant to 10 CFR 50.55a(g)(6)(i) for Unit 3 as requested. Relief is also granted for Units 1 and 2 provided that the percentage of coverage obtainable at those units is as much as estimated, based on examinations performed on Unit 3 components. As the coverage on Units 1 and 2 is verified when the examinations are performed and if the actual coverages are less than estimated for Units 1 and 2, the licensee is required to resubmit the request for relief based on actual coverages.

Attachment: Technical Letter

Report

Principal Contributor: T. McLellan

Date: May 3, 1996

ON THE THIRD 10-YEAR INSERVICE INSPECTION INTERVAL REQUEST FOR RELIEF 95-04

FOR

DUKE POWER COMPANY

OCONEE NUCLEAR STATION, UNITS 1, 2, AND 3

DOCKET NUMBER: 50-269, -270, AND -287

1.0 INTRODUCTION

By letter dated October 5, 1995, Duke Power Company submitted Request for Relief 95-04 for Oconee Nuclear Station, Units 1, 2, and 3. In a letter dated February 27, 1996, the licensee submitted additional information. The Idaho National Engineering Laboratory (INEL) staff has reviewed the request for relief in the following section.

2.0 EVALUATION

The Code of record for Oconee Nuclear Station, Units 1, 2, and 3, third 10-year inservice inspection (ISI) interval, is the 1989 Edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI. The information provided by the licensee in support of the request for relief from Code requirements has been evaluated and the basis for disposition is documented below.

While the request for relief is for Units 1, 2, and 3, the actual examinations have not yet been performed on Units 1 and 2. The licensee has determined that the percent of coverage obtainable for Units 1 and 2 is equivalent to that for Unit 3 as the component designs are the same. This coverage should be verified when the examinations are performed. If the actual coverages are less than the estimated coverages, the licensee must resubmit the request for relief.

Request for Relief 95-04 (Part 1 of 2), Examination Category B-A, Item B1.21, Reactor Pressure Vessel Head Welds, Item B1.40, Reactor Pressure Vessel Head-to-Flange Weld

<u>Code Requirement</u>: Table IWB-2500-1, Examination Category B-A, Item B1.21 requires 100% volumetric examination of the accessible portion of all reactor pressure vessel (RPV) circumferential head welds as defined in Figure IWB-2500-3.

Table IWB-2500-1, Examination Category B-A, Item B1.40 requires 100% volumetric and surface examination of the RPV head-to-flange weld as defined in Figure IWB-2500-5.

<u>Licensee's Code Relief Request</u>: The licensee requested relief from performing the volumetric examination to the extent required by the Code for the following examination areas:

Reactor Vessel Head Welds:

1-RPV-WH5, Item Number B01.021.001 2-RPV-WH5, Item Number B01.021.001

3-RPV-WH5, Item Number 801.021.001

Reactor Vessel Head-to-Flange Welds:

1-RPV-WH7, Item Number B01.040.001

2-RPV-WH7, Item Number B01.040.001

3-RPV-WH7, Item Number B01.040.001

Licensee's Basis for Requesting Relief (as stated):

"Item Number B01.021.001 (3-RPV-WH5), RPV Head Weld was examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, 1989 Edition. The additional requirements of Regulatory Guide 1.150, Revision 1, Appendix A were also used in the examination.

"Because of geometric conditions, i.e., lifting lugs adjacent to the weld, 81.85% of the near surface volume and 79.85% of the weld and base metal volumes were covered. In order to achieve more coverage of required volumes the lifting lugs would have to be moved away from the weld area.

"Item Number B01.040.001 (3-RPV-WH7), RPV Head-to-Flange Weld was examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, 1989 Edition. The additional requirements of Regulatory Guide 1.150, Revision 1, Appendix A were also used in the examination.

"Because of geometric conditions, i.e. single sided access, 63.35% of the near surface volume and 48.55% of the weld and base metal volumes were covered. In order to achieve more coverage of the required volumes, the weld must be at a greater distance from the flange."

Licensee's Proposed Alternative Examination (as stated):

"Duke Power Company will continue to perform an ultrasonic examination of Item Numbers B01.021.001, 3-RPV-WH5, RPV Head Weld and B01.040.001, 3-RPV-WH7, RPV Head-to-Flange Weld to the maximum extent practical in accordance with the requirements of ASME Section V, Article 4, 1989 Edition and Regulatory Guide 1.150, Revision 1, Appendix A."

<u>Evaluation</u>: The Code requires that the subject reactor pressure vessel welds receive 100% volumetric examination. However, due to the examination area configuration, the limited available scanning surfaces preclude complete ultrasonic coverage. As a result, 100% volumetric examination is impractical. To obtain complete volumetric coverage, design modifications or replacement of the component with one providing for complete examination would be required. Imposition of this requirement would cause a considerable burden for the licensee.

The subject volumetric examinations, when performed to the extent practical, provide approximately 80% coverage of the RPV head circumferential weld and 55% coverage of the RPV head-to-flange weld. Based on the significant percent of coverage obtainable, in combination with the Code-required surface examination of the RPV head-to-flange weld, it can be concluded that significant degradation, if present, will be detected. As a result, reasonable assurance of structural integrity is provided. Therefore, it is recommended that the licensee's request for relief be granted pursuant to 10 CFR 50,55a(g)(6)(i).

Request for Relief 95-04 (Part 2 of 2), Examination Category B-D.

Item B3.130, Steam Generator (Primary Side) Nozzle-to-Vessel Welds
and Item B3.140, Steam Generator (Primary Side) Nozzle Inside Radius
Section

<u>Code Requirement</u>: Table IWB-2500-1, Examination Category B-D, Item B3.130 requires 100% volumetric examination of the steam generator nozzle-to-shell weld as defined by Figure IWB-2500-7.

Table IWB-2500-1, Examination Category B-D, Item B3.140 requires 100% volumetric examination of the steam generator nozzle inner radius section as defined by Figure IWB-2500-7.

<u>Licensee's Code Relief Request</u>: The licensee requested relief from performing the volumetric examination to the extent required by Code for the following examination areas:

Steam generator nozzle-to-vessel welds:

1-SGA-WG50-2, Item Number B03.130.001

1-SGA-WG50-1, Item Number B03.130.002

2-SGA-WG50-2, Item Number B03.130.003 2-SGA-WG50-1, Item Number B03.130.004

3-SGA-WG50-2, Item Number B03.130.001

3-SGA-WG50-1, Item Number B03.130.002

Steam generator nozzle inside radius welds:

1-SGA-WG50-2, Item Number B03.140.001 1-SGA-WG50-1, Item Number B03.140.002 2-SGA-WG50-2, Item Number B03.140.003 2-SGA-WG50-1, Item Number B03.140.004 3-SGA-WG50-2, Item Number B03.140.001 3-SGA-WG50-1, Item Number B03.140.002

Licensee's Basis for Requesting Relief (as stated):

"Item Numbers B03.130.001 (3-SGA-WG50-2, nozzle weld), B03.130.002, (3-SGA-WG50-1, nozzle weld), B03.140.001 (3-SGA-WG50-2, inside radius) and B03.140.002 (3-SGA-WG50-1, inside radius), Steam Generator A Primary Outlet Nozzle-to-Lower Head Weld were examined to the maximum extent practical using ultrasonic techniques in accordance with the requirements of ASME Section V, Article 4, 1989 Edition."

"Because of geometric conditions, i.e., single sided access and support skirt location, 15.6% of the required examination volume was covered. In order to achieve more coverage the support skirt would have to be cut away from the nozzle."

Licensee's Proposed Alternative Examination (as stated):

"Duke Power Company will continue to perform an ultrasonic examination of Item Numbers 803.130.002, 803.130.001, 803.140.002 803.140.001, 803.130.003, 803.130.004, 803.140.003, and 803.140.004 Steam Generator A Primary Outlet Nozzle-to-Lower Head Weld and Inside Radius to the maximum extent practical in accordance with the requirements of ASME Section V, Article 4, 1989 Edition."

Evaluation: The Code requires that steam generator nozzle-to-shell and nozzle inner radius sections be 100% volumetrically examined during the inspection interval. However, due to the geometry of the examination area and examination interference from the support skirt, complete examination of the subject examination areas is impractical. To obtain complete volumetric coverage, design modifications of the component would be required. Imposition of this requirement would cause a considerable burden for the licensee.

The examinations, when performed to the extent practical, result in an estimated 15.6% coverage of each nozzle-to-shell weld and inner radius section. Based on the percent of coverage that can be obtained for each nozzle and considering the combined coverage achieved when all nozzles are examined (essentially 100% of one nozzle), it can be concluded that significant degradation, if present, will be detected. As a result, reasonable assurance of structural integrity is provided.

<u>Conclusion</u>: Performing the Code-required volumetric examination for the subject nozzle-to-shell and inner radius sections to the extent required by the Code is impractical for Oconee Nuclear Station, Units 1, 2, and 3. Therefore, it is recommended that relief be granted pursuant to 10 CFR 50.55a(g)(6)(i).

3.0 Conclusion:

Performing the Code-required volumetric examinations of the subject areas to the extent required by Code is impractical for Oconee Nuclear Station, Units 1, 2, and 3. The licensee will perform the required volumetric examinations on each of the subject welds to the extent practical. This, in combination with the Code-required surface examinations (as applicable), provides reasonable assurance of operational readiness. Therefore, it is recommended that relief be granted for Request for Relief 95-04 (Parts 1 and 2) pursuant to 10 CFR 50.55a(g)(6)(i). It should be noted that in the case of Units 1 and 2, the licensee has estimated the percent of coverage obtainable. This coverage should be verified when the examinations are performed. If the actual coverages are less than estimated, the licensee must resubmit the request for relief based on actual coverages.

MF Sanni Nox	/ : /et@i::	Caregonya iliBR idio. Other Report
O-99-04557	3	The second secon

Problem Identification

Discovered Time/Date:

18:09 11/15/1999

Occurred Time/Date:

Unit(s) Affected:

Unit Mode 2

%Power Unit Status Remarks

None

System(s) Affected:

MS

Main Steam

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg: AB

Column Line:

Elev:

Location Remarks:

In AB roof just outside TB siding.

Method Used to Discover Problem:

Snubber removal per NSM ON-23054

Brief Problem Description:

Lisega hydraulic snubber found broken on S/R# 2-01A-0-1441-DE060.

Detail Problem Description:

Snubber Engineer was notified that Lisega hydraulic snubber on S/R# 2-01A-0-1441-DE060 was found broken. This particular support has 4 snubbers. The top east snubber was discovered to have the rod end sheared off at the piston end. The snubber was left in place upon discovery so engineering could observe as-found conditions. Snubber will be removed so further evaluation can be performed to determine cause of failure. The 4 snubbers on S/R# 2-01A-0-1441-DE060 are being deleted this outage per NSM ON-23054.

No present operability evaluation is required, but a past operability evaluation will be required.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 11/15/1999

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

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

Immediate Corrective Actions:

Pictures were taken of the as-found conditions. The snubber will be removed so further testing and evaluation can be performed.

Driginated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 11/15/1999

Immediate Corrective Action Documents / Work Orders:

<u>Indiv</u>

Team

Group

Date

Problem Identified By:

PAW4981

11/15/1999

Problem Entered By:

PAW4981

RAH8344

CEN

11/15/1999

Screening

Is the Problem Significant? No

Action Category: 3

OEP No:

Other Report Nos:

Event Codes:

F10

Equipment Damage

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), RH Ledford (MNT & WCG), and Mike Pruitt (OPS)

Originated By: EHD8302: DUMMEYER, EDWARD H Team: RTB7310 Group: SRG Date: 11/16/1999

Assignments:

Responsible Groups(s) for Problem Evaluation: CEN

Civ, Elect., Nuclear

Responsible Group for Present Operability: Responsible Group for Past Operability:

N/A

Regulatory Compliance

Responsible Group for Reportability:

RGC RGC

Regulatory Compliance

Responsible Group for Overall PIP Approval:

CEN

Civ, Elect., Nuclear

Signature Pyge	inaliy .	10em	Group	Daie
Screened By:	EHD8302	RTB7310	SRG	11/16/1999

Present Operability

Responsible Group:

CEN

Status: NotRequired

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

Required Mode:

Comments:

No Current Signatures For This Section

Past Operability:

Responsible Group:

CEN

Status: Closed

02/02/2000 13:14 Page 2 PIP No: O-99-04557

Sy	s/Comp Operable?(Y,N,C,E,T): Y
Re	equired Mode: 3
Co	omments:
1.	Statement of Problem Snubber S/R # 2-01A-0-1441-DE060 was found broken
2.	Relation to QA Condition QA condition 1
3.	Applicable codes And standards USAS Code for Pressure Piping Section B31.1, 1967
4.	Evaluation Inputs/Methods Used PIP 99-4557 Piping calculation OSC-440 Rev. 28
5.	Other Evaluation Criteria N/A
6.	Applicable Licensing References UFSAR Section 10.3
7.	Assumptions None
8.	References PIP 99-4557 Piping calculation OSC-440 Rev. 28
9.	Calculation/Evaluation The subject piping and supports are analyzed in calculation OSC-440.
cui	analysis for NSM-23054 (OSC-440 Rev. 26) show that this snubber is not needed for seismic load. It is therefore deleted at the rent refueling outage 2EOC17. The broken snubber 2-01A-0-1441-DE060 has no adverse impact on the piping and associated aports. It is concluded that the subject piping and supports are past operable.
10.	Compensatory Actions Required for Operability None
11.	Conclusions The piping and supports are past operable

Originated By: PCC2458: CHAU, PETER C Team: RAH8344 Group: CEN Date: 12/14/1999

Signations Type	: Indiv	i îtêam	Com	Date
Due Date:	12/16/1999			
Accepted By:	RAH8344	RAH8344	CEN	11/17/1999
Assigned To:	PCC2458	RAH8344	CEN	11/17/1999
Ready for Checked By:	PCC2458	RAH8344	CEN	12/14/1999
Approval Assigned To:	RAH8344	RAH8344	CEN	12/14/1999

Signature Hyge	រីវារ៉ាវិទី	(Keam)	. Choin	Daire.
Checked By Assigned To:	JPP610C	RAH8344	CEN	12/14/1999
Checked By:	JPP610C	RAH8344	CEN	12/14/1999
Ready For Approval:	RAH8344	RAH8344	CEN	12/16/1999
Approved By:	RAH8344	RAH8344	CEN	12/16/1999
Evaluated By:	JASMITH	LEN2127	RGC	12/20/1999

Reportability

Responsible Group:

RGC

Status: Closed

Problem Reportable(Y,N,E):

N

Reportable Per:

Comments:

Based on the past operability, this snubber was not required for system operabilty. Therefore, this event was not reportable.

Last Updated By: RPT7314: TODD, RANDALL P Team: LEN2127 Group: RGC Date: 01/05/2000

Reportabilty depends upon the impact of the failed snubber on the operabilty of the MS system. (Based on prior snubber results, this is not expected to impact system operabilty).

Originated By: RPT7314: TODD, RANDALL P Team: LEN2127 Group: RGC Date: 11/24/1999

Signature Physe	hicky	ijenin.	Group	Date
Assigned To:	RPT7314	LEN2127	RGC	11/17/1999
Ready For Approval:	RPT7314	LEN2127	RGC	01/05/2000
Approval Assigned To:	LEN2127	LEN2127	RGC	01/05/2000
Approved By:	LEN2127	LEN2127	RGC	01/07/2000

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

Bweni	Canse Cone	Cause Description	Prinsings	Casing Gran)35
F10	P2f	Externally damaging conditions not corrected	Yes	N/A	

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

Apparent Cause

Top east snubber on S/R# 2-01A-0-1441-DE060 was found with the piston rod eye broken completely off. Scarring was observed on the side of the snubber body from contact with adjacent pipe clamp on S/R# 2-01A-0-1441-H17. In the cold condition there was minimal gap between the snubber body and pipe clamp for H17. Thermal pipe movements caused the clamp to bear against the snubber body which induced a significant perpendicular load to the snubber body. Snubbers are designed for axial load not perpendicular loads. It is believed the cause of failure is shear overload. This snubber is located on the Main Steam piping near the Main Steam Relief Valves. Unit 2 tripped between 2EOC16 & 2EOC17 on 6/13/98 and 11/3/98. The sudden relief valve transient load in addition to the thermal binding load is suspected to have broken the snubber. The broken portions of the snubber have been submitted for Metlab analysis. A corrective action will be added to document the results of this analysis.

The apparent cause is overload from contact with the adjacent pipe clamp. This is an application induced failure per OM 1987 Code (ref. ASME Section XI, Article IWF-5300). A cause code of P2f was assigned.

S/R# 2-01A-0-1441-DE060 is being deleted by NSM ON-23054 during the current outage. No further actions are needed for this support. 3/R# 2-01A-0-1441-DE061 is similiar to DE060. The top east snubber on DE061 also has scarring on the snubber body from contact with adjacent pipe clamp on S/R# 2-01A-0-1441-H2. DE061 is also being deleted NSM ON-23054.

Snubber Operability For Inspection Frequencies

SLC 16.9.18 states "Snubbers which appear inoperable as a result of visual inspections may be determined to be OPERABLE for the purpose of establishing the next visual inspection interval provided that (1) the cause of rejection is clearly established and remedied for that particular snubber and for other snubbers that may be generically susceptible; and (2) the affected snubber is functionally tested in the as-found condition and determined to be OPERABLE." 1987 OM Code has similar provisions in section 2.3.4.2.

The top east snubber found broken has been deemed OPERABLE for the purposes of establishing the next inspection interval for SLC 16.9.18 & OM 1987 for the following reasons.

- (1) A rod eye was installed on the snubber and it was functional tested per work order 98141231, task 79. Snubber passed its functional test.
- (2) S/R# 2-01A-0-1441-DE060 has 4 snubbers. This support was Past Operable even with this one snubber broken.
- (3) Snubber piston rod broke due to application of an external force perpendicular to the body of the snubber. Snubbers are designed for axial load, not perpendicular load. Broken snubber was a result of an undesigned condition, not a snubber malfunction. This cause of this failure is judged to be outside the scope and intent of the snubber inspection program.
- (4) This snubber and other susceptable snubbers were deleted by NSM ON-23054 during the current outage (2EOC17). The OM Code requires failure mode grouping. The only snubbers in the failure mode group would be those on DE060 and DE061. All eight of these snubbers were deleted, so no increased inspection frequencies are required for OM Code.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 12/03/1999

OEDB Comments:

OEDB was not checked because cause of broken snubber is known and all those susceptable to same condition in Unit 2 were deleted.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 12/03/1999

Remarks Comments:

Signature Byje	inghy	Tem.	Group	Date
Due Date:	12/15/1999		The state of the s	Web or remove as the second to be self than a set of supply different state of course and a second state of the
Accepted By:	RAH8344	RAH8344	CEN	11/17/1999
Assigned To:	PAW4981	RAH8344	CEN	11/17/1999
Ready For Approval:	PAW4981	RAH8344	CEN	12/03/1999
Approval Assigned To:	RAH8344	RAH8344	CEN	12/03/1999
Approved By:	RAH8344	RAH8344	CEN	12/06/1999

Corrective Actions

CA Seq. No: 1

Rest Choup	Ngjūg	CHE CHOUS	EveniCoic	· Prop.GAC	Cange Code
CEN	Closed	CEN	F10	В3	P2f

Proposed Corrective Action:

Document results of Met. Lab analysis on broken snubber on S/R# 2-01A-0-1441-DE060.

Originated By: PAW4981: WELLS, PHILLIP A Team: RAH8344 Group: CEN Date: 12/03/1999

Signature Type	Űmáňv	lean .	Gom	Date
Ready For Approval:	PAW4981	RAH8344	CEN	12/03/1999
Approval Assigned To:	RAH8344	RAH8344	CEN	12/03/1999
Approved By:	RAH8344	RAH8344	CEN	12/06/1999

General: Outage:

Mode:

Other Tracking Processes

Type Number Text

Actual Corrective Action:

Actual CAC: Status: Open

Due Date: 02/13/2000

Signific Hype	ingly :	ka ja si si Teami ka ja sa	Group.	Daie San
Due Date:	02/13/2000			
Accepted By:	RAH8344	RAH8344	CEN	12/06/1999
Assigned To:	PAW4981	RAH8344	CEN	12/06/1999

Final and Overall PIP Approval

Responsible Group: CEN

Status: Screened

Signature Hype	inchy	îke,m	-Gjeng	Date	
Assigned To:			CEN	11/16/1999	
Accepted By:	SNS3927	CAL7344	CEN	11/16/1999	\neg

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:

N₅

Comments

Зідімініс Луре.	frélive	'	Goip	idae
Assigned To:			SRG	11/16/1999
Ready For Approval:	RWVASSEY	RTB7310	SRG	12/07/1999
Approval Assigned To:	RTB7310	RTB7310	SRG	12/07/1999
Approved By:	RWVASSEY	RTB7310	SRG	12/07/1999

Remarks

No Remarks for this PIP.

<u>Maintenance Rule</u>

Responsible Group: CEN

Status: Open

Maintenance Rule SSC

SSC Description	Risk Binnery Significant System
MS Main Steam System	n Yes

Equipment Group: Applicable Unit:

Functional Failure: Yes MPFF: No

Repetitive MPFF: No

Functional Failure Comments:

MPFF Comments:

Repetitive MPFF Comments:

Reactor Trip: No

Safety System Actuation: No

Force Outage Rate or Plant Transient: No

Loss of Heat Decay Removal: No

Loss Of Spent Fuel: No

Comments:

Signature Rype	i didiy	jen Tem	(Group)	Date	
Assigned To:	PAW4981	RAH8344	CEN	01/11/2000	Constant of the Constant
Due Date:	02/09/2000				

End of the Document for PIP No: O-99-4557
The status of this PIP is: Screened
The duration of this PIP was: 2 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 May 25, 1998 through December 16, 1999 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								1a. Date <u>5-/2-98</u>
2.	Plant Address	Oconee Nu P.O. Box 14			379				Sheet of
2a.	Unit		<u> </u>] з	☐ Shared (specify Units_)	20 Work Ordo	אנע באנים לי א
3.	Address 52		Street, Cha	arlotte, N	C 28201-1006 No. N/A Expiration Date	N/A			r# <u>57048446</u> Repair Organization Job # w#) 9462
4.	Identificatio	on of System_		9	Class	2			
5.	(a) Applica	able Construc able Edition of	tion Code_ f Section XI	33/. Utilized f	7 19 <i>69</i> Edition Replacemen	on, <i>S-69</i> ts 1989, No Addei	_ Addenda, _ nda	no	Code Cases
6.	Identificatio	n of Compon	ents Repair	ed or Re	placed and Replacement C	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	9/R 2-53B-4382-11596	DPC	MA	MA	MA	1/14	☐ Repaired ☐ Replaced ☑ Replacement	✓ No □ Yes
В	S/R 2:53B:438Q:145Gs/	DPC	MA	NA	MA	MA	☐ Repaired ☐ Replaced ☑ Replacement	☑ No □ Yes
С	2=53B-l-1\438C-H/3	DPC	MA	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

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 _____ \(\frac{9}{2} \) \(\frac{\left{below}}{\left{below}} \)

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 <u>Con</u>	ponent A:	INSTALLE								
Lom	ponen B:	INSTAN	led new SIR							
Lung	anent C:	ModiFi	ed S/R							
(Applicable Manufacturer's Data Records to be Attached)										
			OF COMPLIANCE							
We certify that the of the ASME Code, S	statements made Section XI.	in the report are	correct and this repair or replace	ement conforms to the rules						
Type Code Symbol S	tamp N/A									
Certificate of Authoriz	zation No. N/A		Expiration Date N	/A						
Signed <u>IR</u>	non A Owner or owner	Specialis/ Designee, Title	Date5-/2,	19 <u><i>9</i>8</u>						
	CERT	IFICATE OF I	NSERVICE INSPECTION							
I, the undersigned,	, holding a valid co	mmission issued	by the National Board of Boiler a	nd Pressure Vessel						
Hartford Connecticu	ate of Frovidence It have inspected t	he components d	and employed by H lescribed in this Owner's Report of	SBI and I Company of						
to <u>7-14-98</u> ; and €	state that to the be	st of mv knowledd	ge and belief, the Owner has perf	ormed examinations and						
Section XI.	sures described in	this Owner's Rep	ort in accordance with the require	ements of the ASME Code,						
By signing this cer	tificate, neither the	Inspector nor his	employer makes any warranty, e	xpressed or implied,						
Inspector nor his emr	nations and correct	tive measures de	escribed in this Owner's Report. F for any personal injury or property	urthermore, neither the						
kind arising from or o	onnected with this	inspection.	or any personal injury or property	damage or a loss of any						
M13 Chapse	can Co	mmissions	NC914							
Inspector's Sign	ature		National Board, State, Providence	e and Endorsements						
Date 7 - 14 , 19	98									
			·	5 0 10						

E

F

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

1.		Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 28	201-1006					7-22-98
2.		Oconee Nucl P.O. Box 143	lear Station 9, Seneca, S.C. 29679					Sheet ₋	<u>t</u> of <u>1</u>
2a.	Unit	□ 1 ×] 2 □ 3 □ Sha	red (specify Units		.)		Oan u	.
3.	Address 526	6 S. Church S	Power Company Street, Charlotte, NC 2820 N/A Authorization No. N/A	1-1006 L Expiration Date N/A				er # <u>980 461</u> Repair Organi M # <u><i>N</i>/A</u>	SI-OI zation Job #
4.	Identification	n of System	MS	Class2	2			,	
5.	(a) Applicat (b) Applicat	ole Construction of the Edition of t	on Code <u>AN 51 B31,</u> Section XI Utilized for Repa	L 19 <u>47</u> Edition <u>, J</u> irs or Replacements 198	رات Addenda	ddenda,			_Code Cases
6.	Identification	n of Compone	nts Repaired or Replaced a	nd Replacement Compo	onents				
	Colu	umn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
		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	5/R 2-01A-0-	-1401A-H24	DPC	NA	NA	NA	NA	□ Repaired □ Replaced □ Replacement	⊠ No □ Yes
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No☐ Yes

Yes

No

No

Yes

☐ Repaired ☐ Replaced ☐ Replacement

☐ Repaired ☐ Replaced ☐ Replacement

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 Reset Hot Load 5/R Z-01A-0-1401A-HZ4

8. Test Conducted:	☐ Hydrostatic			sure	⊠ Exempt
	Pressure	psig	Test Temp	°F	
	Pressure	psig	Test Temp.	°F	
	. Pressure	psig	Test Temp.	°F	
9. Remarks					
	(Ap	plicable Manufactu	urer's Data Records to be Attac	ched)	
			OF COMPLIANCE		
We certify that the of the ASME Code,	statements made Section XI.	in the report are	correct and this repair or rep	olacement conform	ns to the rules
Type Code Symbol S	Stamp N/A				
Certificate of Authori	zation No. N/A		Expiration Da	ate N/A	
Signed Sky	Mason		Date		
	Owner or Owner	r's Designee, Title	Date_/	<u>- , (9_78_</u>	
Inspectors and the S Hartford Connectice to 7-22-98; and taken corrective mea Section XI. By signing this cel concerning the exam	I, holding a valid contate or Providence of the	ommission issued of	by the National Board of Boil and employed lescribed in this Owner's Repge and belief, the Owner has port in accordance with the resemble employer makes any warrantescribed in this Owner's Report of any personal injury or pro	ler and Pressure V by HSBI and I Cor port during the peri- performed examination equirements of the https://expressed.or.in	mpany of od <u></u>
Inspector's Sign	nature Co	ommissions	NC १८५ National Board, State, Provid	dence and Endors	ements
Date <u>7-33</u> , 19	98				
					Page 2 of 2

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 7-29-98
2.	Plant Address	Oconee Nuclear Station P.O. Box 1439, Seneca, S.C. 29679	Sheet L of 1
2a.	Unit	☐ 1 ☐ 2 ☐ 3 ☐ Shared (specify Units)	3a. Work Order # <u>980 3979</u> 6
3.	Address 52	med By Duke Power Company 6 S. Church Street, Charlotte, NC 28201-1006 Symbol Stamp N/A Authorization No. N/A Expiration Date N/A	Repair Organization Job # 3b. NSM or MM #
4.	Identificatio	n of System Class	
5.	(a) Applica (b) Applica	ble Construction Code <u>ANS1B3L,7</u> 19 <u>69</u> Edition, <u>Avgus</u> Addenda, ble Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda	Code Cases
6.	Identificatio	n 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	5/R 2-51B-1444-DE009	DPC	NA	NA	NA	NA	☒ Repaired☐ Replaced☐ Replacement	⊠ No □ Yes
В							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
E							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

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

7. Description of World	k Welded	shim to	S/R Z-51B	1-/444-DE009
8. Test Conducted:	☐ Hydrostation			Pressure Other Exempt
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
9. Remarks				
	······································			
	(A	pplicable Manufact	urer's Data Records to be	Attached)
			OF COMPLIANCE	
We certify that the of the ASME Code, S	statements mad Section XI.	de in the report are	correct and this repair	or replacement conforms to the rules
Type Code Symbol S	tamp N/A			
Certificate of Authoriz	zation No. N/A		Expirati	on Date N/A
Signed $48M$	lason		Date	<u>'~29,</u> 19 <u>98</u>
	Owner or Own	er's Designee, Title		
			NSERVICE INSPEC	
Inspectors and the St	i nolding a valid late or Providenc	commission issued ce of いんい	by the National Board of and employed	of Boiler and Pressure Vessel oyed by HSBI and I Company of
nartiora Connecticu	it nave inspected	d the components (described in this Owner's	s Report during the period 7-1-98
to <u>-729-98</u> ; and s	state that to the I	pest of my knowled	lge and belief, the Owne	er has performed examinations and
Section XI.				the requirements of the ASME Code,
By signing this cer	tificate, neither t	he Inspector nor hi	s employer makes any v	varranty, expressed or implied,
Inspector nor his emp	nations and corr Nover shall be lia	ective measures d able in anv manner	escribed in this Owner's for any personal injury o	Report. Furthermore, neither the or property damage or a loss of any
kind arising from or co	onnected with th	is inspection.	ioi any personal mjary t	or property damage or a loss or any
. 1				
MB Chapma		Commissions	NC 914	
Inspector's Sign	ature		National Board, State,	Providence and Endorsements
Date 7-29 , 19	98			

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

		744	As Require	a By The Provisions	S Of The ASN	IE Code Section	ΧI		
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 2	8201-1006				1a. Date	7-30-98 1 of 1
2.	Plant Address	Oconee Nuc P.O. Box 143	clear Station 39, Seneca, S.C. 29679					Sheet ₋	of
2a.	Unit	□ 1	【2 □3 □Sh	ared (specify Units		_)	la ula Quala	99545	140
3.	Address 52	6 S. Church 9	e Power Company Street, Charlotte, NC 282 p N/A Authorization No. N/	01-1006 /A Expiration Date N/A				r # <u>98045</u> Repair Organi M # <u>VA</u>	zation Job #
4.	Identificatio	n of System_	LPS	Class2	2				
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	ion Code <i>ANSI B3L</i> , Section XI Utilized for Rep	19 <u>67</u> Edition, i	AB9, Mo Addenda	ddenda,			_Code Cases
6.	Identification	n of Compone	ents Repaired or Replaced	and Replacement Comp	onents				
	Col	umn 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 2-148-0-14	4794-41	DPC	NA	NA	NA	NA	Repaired Replaced Replacement	No □ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

Yes

No

Yes

No

Yes

No

Repaired
Replaced
Replacement

☐ Repaired ☐ Replaced ☐ Replacement

☐ Repaired ☐ Replaced ☐ Replacement

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

7. Description of Work Welded shim to 5/R Z-14B-0-1479A-HI

8. Test Conducted:	∟ Hydrostatic	☐ Pneumatic		Other Sexempt
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
9. Remarks				
	<u> </u>			
	(Ap	plicable Manufactu	urer's Data Records to be Attached)	
		CERTIFICATE	OF COMPLIANCE	
We certify that the of the ASME Code,	e statements made		correct and this repair or replacer	nent conforms to the rules
Type Code Symbol S	Stamp N/A			
Certificate of Author	ization No. N/A		Expiration Date N/A	1
Signed 8 W	lason		Date	98
	Owner or Owner	's Designee, Title		
<u> </u>				
Inspectors and the S Hartford Connectic to <u>X.3.98</u> ; and taken corrective mea Section XI. By signing this ce concerning the exam	d, holding a valid contact or Providence ut have inspected state that to the beasures described in the rtificate, neither the ninations and correployer shall be liable connected with this	ommission issued of	by the National Board of Boiler and and employed by HS described in this Owner's Report du ge and belief, the Owner has perfor out in accordance with the requirer seemployer makes any warranty, expescribed in this Owner's Report. Further for any personal injury or property of	BI and I Company of bring the period 5-11-98 rmed examinations and ments of the ASME Code, bressed or implied, or thermore, neither the
Inspector's Sig	nature	ommissions	National Board, State, Providence	and Endorsements
Date_ <i>83</i> , 19	9 <u>98</u>			
				Page 2 of 2

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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 526 S. Churc	Company ch Street, Charlotte, NC 28	201-1006					7-30-98 1 of 1	
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sneet _	<u>4</u> 01 <u>4</u>	
	Unit	•		red (specify Units		.) 3a. W	ork Orde	r # <u>980397</u> Repair Organi	784	
3.	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/A	1-1006 Expiration Date N/A				Repair Organi M #		
4.	. Identification of SystemClass									
5.	(a) Applicable Construction Code ANSI B 31.7 1969 Edition, August Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 No Addenda									
6.	Identificatio	n of Compone	ents Repaired or Replaced a	nd Replacement Compo	onents		4			
	Col	umn 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)	
Α	S/R 2-51A-0-	1444-H187	DPC	N A	NA	NA	N/A	Repaired Replaced Replacement	No Yes	
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	
D								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
E								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Welded shims to S/R Z-51A-0-1444-H187 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure pisa Test Temp. Pressure _____psig Test Temp. 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 Symuol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed 7 Date 7-30, 1998 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-3-98 to 8-3-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NC914 Inspector's Signature National Board, State, Providence and Endorsements Date 8-3 , 1998

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

			AS nequi	rea by the Provisions	Of the ASM	ie Code Section	XI						
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NO	C 28201-1006					8.3.98				
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sneet _	<u>1</u> of <u>1</u>				
2a.	Unit	□ 1	ĭ2 □3 □	Shared (specify Units		.) .3a W	ork Orde	r# 98045	203				
3.	Address 52	Nork 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 # 980 45203 Repair Organization Job # 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.	Identificatio	n of System_	LPS	Class	2								
	(b) Applica	ible Edition of	Section XI Utilized for R	1.1 19.67 Edition, J epairs or Replacements 198	39, No Addenda	ddenda,			_Code Cases				
6.	Identificatio	n of Compone	ents Repaired or Replac	ed and Replacement Compo	onents	powert							
	Col	lumn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8				
	Name of	Component	Name of Manufacture	er Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)				
Α		479A-HZ	DPC	NA	NA	NA	NA	Repaired Replaced Replacement	⊠ No □ Yes				
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes				
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes				

No

Yes

No

Yes

No

Yes

Repaired
Replaced
Replacement

☐ Repaired ☐ Replaced ☐ Replacement

☐ Repaired ☐ Replaced ☐ Replacement

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 Added shim to S/R Z-14B-0-1479A-HZ (welded
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure psig Test Temp °F
Pressurepsig Test Temp°F
Pressure psig Test Temp °F
9. Remarks
(Applicable Manufacturer's Data Records to be Attached)
(Applicable mandiacturer's bata necords 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 Symuol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed S Mason Date 8-3, 1998
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 5-11-98
to 8-3-18; 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.
moss
Inspector's Signature Commissions National Board State Providence and Endorsements
Inspector's Signature National Board, State, Providence and Endorsements Date 8 3 , 19 98
Duic 0213, 1216

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

			As nequi	Ted by The Plovisions	Of the ASI	ie Code Section	ΧI					
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NO	C 28201-1006					8-3-98			
2.	Plant Address	Oconee Nuc P.O. Box 143	lear Station 9, Seneca, S.C. 29679					Sheet _	$\underline{1}$ of \underline{L}			
a.	Unit	□ 1	1 2 □3 □	Shared (specify Units		_)	(l.	9814E	400			
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 # 98045492 Repair Organization Job # 3b. NSM or MM #											
		dentification of System HP Class 1										
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.	Identificatio	n of Compone	ents Repaired or Replace	ed and Replacement Compo	onents							
	Col	umn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8			
		Component	Name of Manufacture	er Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)			
A	-S/R -519-0-14	7 <i>9A-HL</i> 6B	DPC	NA	NA	NA	NA	Repaired Replaced Replacement	⊠ No □ Yes			
3								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes			
C								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes			

☐ Yes

No

Yes

No

Yes

No

Repaired
Replaced
Replacement

Repaired
Replaced
Replacement

☐ Repaired ☐ Replaced ☐ Replacement

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

7. Description of Work Welded shims +	S/R 51A-0-1479A-H16B
8. Test Conducted:	☐ Nominal Operating Pressure ☐ Other ☒ Exempt
Pressure psig	Test Temp °F
Pressure psig	Test Temp°F
Pressure psig	Test Temp°F
9. Remarks	
(Applicable Manufactu	rer's Data Records to be Attached)
CERTIFICATE	OF COMPLIANCE
	correct and this repair or replacement conforms to the rules
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	Expiration Date N/A
Signed Owner's Designee, Title	Date <u> </u>
	NSERVICE INSPECTION
I, the undersigned, holding a valid commission issued Inspectors and the State or Providence of	by the National Board of Boiler and Pressure Vessel and employed by HSBI and I Company of
Hartford Connecticut have inspected the components of	lescribed in this Owner's Report during the period
to 8-3-98; and state that to the best of my knowled	ge and belief, the Owner has performed examinations and
Section XI.	ort in accordance with the requirements of the ASME Code,
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures de	s employer makes any warranty, expressed or implied,
Inspector nor his employer shall be liable in any manner kind arising from or connected with this inspection.	for any personal injury or property damage or a loss of any
and the map contains	
M.B. Chapman Commissions	NC914
Inspector's Signature	National Board, State, Providence and Endorsements
Date	

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

			<u> </u>								
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 28	201-1006					8-3-98		
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sheet _	<u></u> of <u></u>		
2a.	Unit	□ 1	3 □ 3 □ Sha	red (specify Units		_)		^ - . -			
3.	Address 52	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 # 980 45493 Repair Organization Job # 3b. NSM or MM # 1									
4.	Identification of SystemClass										
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.	6. Identification of Components Repaired or Replaced and Replacement Components										
	Col	lumn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8		
		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	51A-0-/	K 479 <i>A-H4</i> A	DPC	NA	NA	NA	NA	☒ Repaired☐ Replaced☐ Replacement	⊠ No ☐ Yes		
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes		
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		

☐ Yes

Repaired
Replaced
Replacement

No

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Welded shim to S/R 51A-0-1479A-14A ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 8. Test Conducted: X Exempt Pressure ____ psig Test Temp. Pressure ____psig Test Temp. Pressure Test Temp. 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 Date 8-3 .1998 Signed 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5.11-98 to 8-3-98; 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. National Board, State, Providence and Endorsements hapman Commissions Inspector's Signature Date 8-3, 1998

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 <u>8-4-98</u>	
2.	Plant Address		Nuclear S t 1439, Sei	Station neca, S.C.	29679					Sheet $\underline{\mathcal{L}}$ of $\underline{\mathcal{L}}$	
2a.	Unit	1	⋈ 2	□ 3	☐ Shared	I (specify Units)		0- 14/1- 0-1- 11	98042054	
3.		26 S. Chu	rch Street,	, Charlotte	, NC 28201-10	006 Expiration Date N/A			3b. NSM or MM #	Repair Organization Job #	
4.	Identificatio	n of Syste	em_ <i>H1</i>	<u> </u>		Class					
5.	(a) Applica (b) Applica	ible Const ible Editio	truction Co n of Sectio	de <u>ANS</u> on XI Utilize	1 B 31.7 d for Repairs o	19 <u>49</u> Edition, <u>Augu</u> or Replacements 1989, N	Addenda	enda,	·	Code Cases	
6.	Identificatio	n of Com	ponents Re	epaired or f	Replaced and	Replacement Component	ts				

	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)
	Snubber an <i>SIR</i> Z-51A-0-1479E-HIE	Grinnell Corp.	3361-4-B-95	NA	NA	NA	☐ Repaired ☐ Replaced ☐ Replacement	⊠ No □ Yes
В	Z-51A-0-1479E-HIE Snubber on 5/R 2-51A-0-1479E-HIE	Grinnell Corp. Grinnell Corp.	16030	NĄ	NA	NA	☐ Repaired ☐ Replaced ☒ Replacement	⊠ No □ Yes
С		,					☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

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

7. Description of Work	Removed	Replaced	Snubber o	n slk	2-51A-0	D-1479E-HIE
8. Test Conducted:	Hydrostatic	Pneumatic	☐ Nominal Operat			⊠ Exempt
	Pressure	psig	Test Tem	p	°F	
	Pressure	psig	Test Tem	p	°F	
	Pressure	psig	Test Tem	p	°F	
9. Remarks						
	(Apı	olicable Manufacti	urer's Data Records to	be Attached	(k	
		CERTIFICATE	OF COMPLIANC	CE		
We certify that the softhe ASME Code, Se	statements made		correct and this repa		ement conforn	ns to the rules
Type Code Symbol Sta	amp N/A					
Certificate of Authoriza	ation No. N/A		Expir	ation Date N	N/A	
	Owner or Owner	s Designee, Title	Date_ {	8-4_,	19 <u>98</u>	
				.*		
Hartford Connecticut to <u>8-4-98</u> ; and st taken corrective measu Section XI.	holding a valid co te or Providence have inspected t atè that to the be ures described in ficate, neither the ations and correc- oyer shall be liabl	mmission issued of	described in this Own ge and belief, the Own port in accordance with s employer makes and escribed in this Owne	rd of Boiler and ployed by Her's Report wher has per the the required warranty, warran	HSBI and I Corduring the period formed examinatements of the expressed or infurthermore, no	mpany of od <u>5-5-98</u> ations and ASME Code, oplied, either the
Inspector's Signa		mmissions	<i>มี cqı y</i> National Board, Stat	e. Providen	ce and Endorse	ements
Date 8-4, 195	8		, 2	,	and Endorot	

F

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 526 S. Churc	Company ch Street, Charlotte, NC 28	3201-1006					8-6-98		
2.	Plant Address	Oconee Nuc P.O. Box 143	clear Station 39, Seneca, S.C. 29679					Sheet _	<u> </u>		
2a.	Unit	□ 1 ×	🕽 2 🔲 3 🔲 Sha	ared (specify Units		.)	ork Ordo	- 4 980 35	621		
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/A					r # <u>98035</u> Repair Organi M # <u><i>NA</i></u>	zation Job #		
4.	Identification of System MS Class Z										
5.	. (a) Applicable Construction Code ANSI R31.1 1947 Edition, July Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda										
6.	6. Identification of Components Repaired or Replaced and Replacement Components										
	Col	lumn 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)		
	5nubber 2-019-1441-	00 "	Grinnell Corp	18820	NA	NA	NA	☐ Repaired ☑ Replaced ☐ Replacement			
В	Snubber 2-01A-144	on 5/R +1-R9-4	Grinnell Corp Grinnell Corp	33920	NA	NA	NA	☐ Repaired ☐ Replaced ☒ Replacement	⊠ No □ Yes		
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
Ε								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		

☐ Yes

Repaired Replaced Replacement

No

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

7. Description of Wor	*Replaced	snubber.	on S/R 2-	-01A-0-14	41-19-4	<i>+</i>
8. Test Conducted:	☐ Hydrostatic			erating Pressure		Exempt
	Pressure	psig	Test	Temp	°F	
	Pressure	psig	Test	Temp.	 °F	
	Pressure	psig	Test	Temp	°F	
9. Remarks						
·						
	(Ap _l	plicable Manufactu	urer's Data Record	ds to be Attached)		
		CERTIFICATE				
We certify that the of the ASME Code, S	estatements made Section XI.	in the report are	correct and this	repair or replacen	nent conform	s to the rules
Type Code Symbol S	Stamp N/A					
Certificate of Authoria	zation No. N/A		Ε	Expiration Date N/A	\	
Signed Signed	lason		Da	ate 8~ 6 , 19	198	
	Owner or Owner	's Designee, Title				
L the undersianed		IFICATE OF II				
Inspectors and the Si	tate or Providence	of N , C .	and	Board of Boiler and demoloyed by HSI	Bl and I Con	nnany of
nartiora Connectici	ut nave inspected t	the components o	described in this (Owner's Report du	ring the perio	nd 4-16-58
to <u>8-10-98</u> ; and staken corrective measures.	state that to the be	st of my knowled	lge and belief, the	 Owner has perfor 	med evaming	ations and
Section XI.						
By signing this cer concerning the exami	tificate, neither the inations and correct	Inspector nor his	s employer make:	s any warranty, exp	pressed or im	plied,
inspector nor his emp	ployer shall be liabl	le in any manner	for any personal	injury or property o	tnermore, ne damage or a	loss of anv
kind arising from or c	onnected with this	inspection.			J	
min						:
Inspector's Sign		mmissionsA	IC914	Otata Durid		
Date <u>8-10</u> , 19			national board,	State, Providence	and Endorse	ments

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

									· · · · · · · · · · · · · · · · · · ·			
1.		Duke Power Company 526 S. Church Street, Charlotte, NC 28201-1006								1a. Date <u>8-4-98</u>		
2.	Plant Oconee Nuclear Station Address P.O. Box 1439, Seneca, S.C. 29679							Sheet	<u></u>			
2a.	Unit 🗌 1	×	2 🗆 3	☐ Share	d (specify Units		.)	Manla Onda	9en11	2332		
3.	3a. Work Order # 9804 Repair Organ 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 #									nization Job #		
4.	Identification of	System	GWD		Class	4						
5.	(a) Applicable C (b) Applicable E	onstruction of	on Code <u>ANS</u> Section XI Utilize	I B 31.7 ed for Repairs	19 <u>49</u> Edition, <u>A</u> or Replacements 198	<u>ugus</u> + A∂ 3 %, No Addenda	ddenda,	······ , <u>,</u>		Code Cases		
6.	Identification of	Compone	nts Repaired or I	Replaced and	d Replacement Compo	onents						
	Column		Column	2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8		
	Name of Com	onent	Name of Manu	ıfacturer	Manufacturer Serial Number	National Board	Other Identification	Year	Repaired, Replaced, or	ASME Code Stamped		

	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	5/R 2-57-0-1481A- RJP-HOBOL	Grinell Corp	16562	NA	NA	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
В		,					☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

Date 8 _ 19 98

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 snubber pivot pin on S/R 2-57-0-1481A-RJP-HOBOI ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: _ _ psiq Pressure Test Temp. Pressure ____psig Test Temp. Pressure Test Temp. 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 Date 8-6 1998 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-5-98 to 8. 10- 58; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NC 9/4 Inspector's Signature National Board, State, Providence and Endorsements

F

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 526 S. Chur	Company ch Street, Charlotte, NC 28	201-1006					8-10-98		
2.	Plant Address										
2a.	Unit	□ 1	☑ 2 ☐ 3 ☐ Sha	red (specify Units		.)		900 110	,, ,		
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 # 98040454 Repair Organization Job # 3b. NSM or MM # NA										
4.	Identificatio	n of System_	LPS	Class	2						
	(a) Applicable Construction Code ANSI B31.1 1947 Edition, July Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda										
6.	Identificatio	n of Compone	ents Repaired or Replaced a	and Replacement Compo	nents				· · · · · · · · · · · · · · · · · · ·		
	Col	umn 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	5/K 2-148-0	1479A-H18	DPC	NA	NA	NA	NA	☒ Repaired☐ Replaced☐ Replacement	No □ Yes		
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes		
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
Ε								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Welded shim to S/R Z-14B-0-1479A-H18 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 8. Test Conducted: Pressure ____psia Test Temp. Pressure ____psig Test Temp. Pressure _____ psig Test Temp. 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 Date 9-10 19 48 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-28-98 to <u>%-10-98</u>; 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

NC914

National Board, State, Providence and Endorsements

Commissions___

kind arising from or connected with this inspection.

Inspector's Signature

Date__*8-_ 10*__, 1998

F

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

		· · · · · · · · · · · · · · · · · ·								
1.	Owner Address	dress 526 S. Church Street, Charlotte, NC 28201-1006							8-11-98	
2.	Plant Address									
	Unit 1 1 2 3 Shared (specify Units) Work Performed By Duke Power Company 3a. Work Order # 98020709 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.	Identificatio	n of System_ <u>/</u>	LP5	Class	2					
5.	(a) Applicable Construction Code ANSIB31.1 1967 Edition, July Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda									
6.	Identificatio	n of Compone	ents Repaired or Replaced a	and Replacement Compo	nents					
	Column 1		Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8	
		Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)	
Α	5/R 2-14B-148	oB-H4543	DPC	NA	NA	NA	NA	Repaired Replaced Replacement	⊠ No □ Yes	
В								☐ Repaired☐ Replaced☐ Replacement	□ No □ Yes	
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
D								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
E								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	

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

7. Description of Work Removed and reinstalled S/R 2-14B-1480B-H6543

8. Test Conducted:	☐ Hydrostatic	☐ Pneumatic	☐ Nominal Operating Pressure	Other 🔀 Exempt		
	Pressure	psig	Test Temp.	°F		
	Pressure	psig	Test Temp.	·		
	Pressure	psig	Test Temp.	°F		
9. Remarks				_		
	(App	olicable Manufactu	urer's Data Records to be Attached)		
		CERTIFICATE	OF COMPLIANCE			
We certify that the of the ASME Code,	e statements made		correct and this repair or replace	ement conforms to the rules		
Type Code Symbol S	Stamp N/A					
Certificate of Authori	zation No. N/A		Expiration Date N	/A		
Signed ON	lason		Date_8-11 .	19 95		
	Owner or Owner	s Designee, Title				
			NSERVICE INSPECTION			
I, the undersigned	l, holding a valid co	mmission issued	by the National Board of Boiler ar	nd Pressure Vessel		
Hartford Connectic	ut have inspected t	he components d	and employed by H lescribed in this Owner's Report of	SBI and I Company of		
10 <u>8-71-98</u> ; and	state that to the be	st of my knowled:	ge and belief, the Owner has perfe	ormed examinations and		
taken corrective mea Section XI.	sures described in	this Owner's Rep	port in accordance with the require	ements of the ASME Code,		
	rtificate, neither the	Inspector nor his	employer makes any warranty e	ynressed or implied		
concerning the exam	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.						
Kind arising from or d	connected with this	inspection.				
mass						
Inspector's Sign	nature Co	mmissions		1 -		
			National Board, State, Providence	e and Endorsements		
Date <i>&//</i> , 19	98					

ASME Section XI Manual

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 11-24-99 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 Address:	 Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006 		•	81 38451 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: MS	4. (b) Class of System: _	2	
5.	(a) Applicable Con (b) Applicable Edit	struction Code: <u>ANSI R31.1 1947</u> Edition,	Addenda, No Addenda (1992 through 1	1992 Addenda for Class	Code Cases MC and CC and their supports
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Componer	nts:		

	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)
Α	Snubber on S/R	C . 11		· ·		1 .		No No
	Z-01A-3-0-1401B-R8	Grinnell	6964	NA	NA	NA	△ Replacement	☐ Yes
В			•				Repaired, Replaced,	No
	ļ						Replacement	Yes
С			·				Repaired, Replaced,	No
			<u> </u>				Replacement	Yes
D	·						Repaired, Replaced,	No
				/			Replacement	Yes
Ε							Repaired, Replaced,	No
							Replacement	Yes
F							Repaired, Replaced,	No
	1						Replacement	Yes

101						
7.	Snubber on S/R Z-01A-3-0-1401B-R8- Description of Work Replaced load stud + nuts					
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt					
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed					
4						

I, the undersigned, holding a valid commission issued by the National Board Pressure Vessel Inspectors and the State or Province of	and employed by ints described in this at to the best of my prective measures SME Code, Section warranty, expressed in the Owner's
Inspector's Signature Commissions Nc914 National Board, State, Province	e and Endorsements
Pressure Vessel Inspectors and the State or Province of	and employed by ints described in this at to the best of my brective measures BME Code, Section warranty, expressed in the Owner's in any manner for connected with this

ASME Section XI Manual

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 <u>/2-6-9</u> 9 Sheet <u>Ext</u>
2.	Plant Address:	OCONEE NUCLEAR STATION		1 1
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1 (2)	3 Shared (specify Units)	
3.	Work Performed By Address:	 Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006 		3a. Work Order #: 98156091 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM or MM #://490
		System: HP	``	
5.	(a) Applicable Con (b) Applicable Edit	struction Code: <u>ANSI B31.7, 1949</u> Edition, ion of Section XI Utilized for Repairs of Replacements: <u>1989</u>	Addenda, No Addenda (1992 through 1	Gode Cases 992 Addenda for Class MC and CC and their supports
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Componer	nts:	

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
A	5/R Z-51A-3-0-1439-H49	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	No Yes
В							Repaired, Replaced, Replacement	No Yes
С			·				Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
Е							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

101				- are true top of this		
	STR 2-9	514-3-0-	1439-7449			
7.	STR 2-5 Description of Work Remove	ed/Repk	iced item# 6	by welding		
8.	Test Conducted: Hydrostatic	Pneumatic	Nom. Operating Press.	Other Exempt		
	Pressure Pressure	psig	Test Temp°F Test Temp°F Test Temp°F			
9.	Remarks					
		·				
	(Applicable M	Appurtanturada Da	A- D			
	(Applicable IV		ata 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 <u>N/A</u> Certificate of Authorization No. <u>N/</u>	<u>′A</u>	Expiration Da	ate <u>N/A</u>		
	Signed Owner or Owner's Designation	ee, Title	Date <u>/2 - 6</u>	.1999		
٠						

	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
	Inspector's Signature Commissions NC 914 National Board, State, Province and Endorsements
•	Date <u>12-15</u> , 99

ASME Section XI Manual

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 <u>/Z-</u> Sheet <u></u>	7-99 of <u>J</u>
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 Address:	/: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order # : 9820031	3
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. -NSM- or MM #: <u>14087</u>	
4.	(a) Identification o	f System: <u>BS</u>	4. (b) Class of System:	2	
5.		nstruction Code: <u>ANS T B31,7 /969</u> Edition,		1992 Addenda for Class MC and CC and the	ode Cases eir supports)
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Compone	nts:	•	

	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	 	ASME Code Stamped (yes or no)
Α	Piping	DPC	NA	NA	NA		Repaired, Replaced, Replacement	☑ No ☑ Yes
В] J.	N. C.					Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

10	rm.
7.	Rendered inoperative the capability of aligning the B5 system Description of Work suction prping to the discharge of the Lift coolers
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Oother Exempt
	Pressurepsig
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 Signed Signed Date 1-13, 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
residue vessel hispectors and the State or Province of A/ A and amplement to
HSBI and I Company of Hartford Connecticut have inspected the components described in this
Owner's Report during the period Walk contact the components described in this
Owner's Report during the period //-//-qq to /-/3-oe; 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
7.11
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed
manufacturing the examinations and corrective measures described in the Owner of
report. Futurermore, neither the inspector nor his employer shall be liable in any many of
any personal injury or property damage or a loss of any kind arising from or connected with this
inspection.
MB/ Rannan
Inspector's Signature Commissions NC 914
National Board, State, Province and Endorsements
Date _/- /3 00

ASME Section XI Manual

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 <u>/2-7-99</u> Sheet <u>/</u> of <u>/</u>
2.	Plant Address:	OCONEE NUCLEAR STATION		
2a.	Unit: 1 2	7800 ROCHESTER HWY, SENECA, S.C. 29672 3 Shared (specify Units)	
3.	Work Performed By Address:	r: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #: 98166256 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3bNSM-or MM #:
4.	(a) Identification of	System: HP	4. (b) Class of System: _	2
5.	(a) Applicable Con (b) Applicable Edit	struction Code: <u>ANSI B31.7 /969</u> Edition,	Addenda, No Addenda (1992 through 1	Code Cases 992 Addenda for Class MC and CC and their supports
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Componer	nts:	

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	 	ASME Code Stamped
	5/R 2-51A-435B-Emo-H42	DPC	NA	NA	NA		☑ Repaired, ☐ Replaced, ☑ Replacement	No Yes
В							Repaired, Replaced, Replacement	No Yes
C	·						Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
Ε							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

7.	Description of Work Relocated + modified 5/R Z-51A-435B-EMO-H4Z per hanger sketch
8.	
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed Date 12-7, 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 Province of
	Inspector's Signature Commissions

ASME Section XI Manual

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 <u>//-23-99</u> Sheet <u>/</u> of <u>21</u>
2.	Plant Address:	OCONEE NUCLEAR STATION 7800 ROCHESTER HWY, SENECA, S.C. 29672		CATIVAL CONTRACTOR OF THE CONT
2a.	Unit: 1	3 Shared (specify Units	_)	
3.	Work Performed By Address:	: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Wor	rk Order # : <u>98156691</u> Repair Organization Job #
		Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSN	or MM #:
4.	(a) Identification of	System: HP	4. (b) Class of System:	
5.	(a) Applicable Con(b) Applicable Editi	struction Code: ANSIB317, 1949 Edition, on of Section XI Utilized for Repairs of Replacements: 1989,	Addenda, <u>No Addenda</u> (1992 through 1992 Adde	Code Cases anda for Class MC and CC and their supports)

Identification of Components Repaired or Replaced and Re	eplacement Components:
--	------------------------

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	VLV. ZHP-120	LESLIE	694225-1	NA		NA	Repaired, Replaced, Replacement	Yes
В	VLV. ZHP-120 VLV. ZHP-120	DRAG	706571-1-1	NA		NA	Repaired, Replaced, Replacement	No Yes
С				,			Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F		:					Repaired, Replaced, Replacement	No Yes

7.	Description of Work Replaced Valve ZHP-120 with DMY-118	0
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt	
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F	•
9.	Remarks Tested IAW ASME Code Case N46-1	
	(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.	1
	Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Signed Date 12-15, 1999 Owner or Owner's Designee, Title	
		4
	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	
	National Board, State, Province and Endorsements	

ASME	Section	ΧI	Manual
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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 <u>/Z-/0 -9</u> 9 Sheet of
2.	Plant Address:	OCONEE NUCLEAR STATION 7800 ROCHESTER HWY, SENECA, S.C. 29672			
2a.	Unit: 1 2)		
3.	Work Performed By Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #:_	9814525Z Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. ^NSM o r MM #: _	13352
4.	(a) Identification o	System: <u>FDW</u>	4. (b) Class of System: _	2	
5.	(a) Applicable Con(b) Applicable Edit	struction Code: <u>ANSI B31.</u> <u>1967</u> Edition,	Addenda, . No Addenda (1992 through 1	1992 Addenda for Clas	Code Cases s MC and CC and their supports
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Componer	nts:		

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mig.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped (yes or no)
	5/R Z-03A-1-0-1439A-2901	DPC	NA	NA	NA	١,,,	ARepaired, AReplaced, Peplacement	™ No ☐ Yes
В							Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced,	No
D	: '						Replacement Repaired, Replaced,	Yes No
E							Replacement Repaired, Replaced,	Yes No
F							Replacement Repaired, Replaced, Replacement	Yes No Yes

7.	Description of Work/Modified 5/R 2-03A-1-0-1439A-HTT-2901 IACL
	ONDE-13352
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed Date 12-10, 1299 Owner or Owner's Designee, Title
٠	
	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
	any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Inspector's Signature Commissions NC914 National Board, State, Province and Endorsements
. 1	Date <u>12-10</u> , 99

ASME Section XI Manual

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		1a. Date 12~10-99
		526 S. Church Street, Charlotte NC 28201-1006		Sheet <u>1</u> of <u>1</u>
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 Address:	7: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order # : 98156216-02 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM or MM #:
		System:	· · · · · ·	
5.	(a) Applicable Cor(b) Applicable Edit	struction Code: <u>ANSI B31.L 1967</u> Edition, ion of Section XI Utilized for Repairs or Replacements: <u>1989</u>	Addenda, No Addenda (1992 through 1	Code Cases 1992 Addenda for Class MC and CC and their supports
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Componer	nts:	

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mig.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes_or_no)
A	S/R	700					☐Repaired, ☐Replaced,	OH NO
	2-05-1401B-H4212	DPC	NA	NA	WA	NA		Yes
В							Repaired, Replaced,	No
<u> </u>							Replacement	Yes
С			·			 	Repaired, Replaced,	No
			·				Replacement	Yes
D			•				Repaired, Replaced,	No
		· · · · · · · · · · · · · · · · · · ·					Replacement	Yes
E							Repaired, Replaced,	No
							Replacement	Yes
F							Repaired, Replaced,	No
							Replacement	Yes

7.	Description of Wo	ork Added y	1ew 5/R	2-05-14	018-6	14212	2
8.	Test Conducted	: Hydrostatic	Pneumatic	Nom. Operatin	g Press.	Other	Exempt
		Pressure	psia	Test Temp	٥٢-		
		Pressure	psig	Test Temp			
		Pressure	psig	Test Temp.			
9.	Remarks		•,		-		
		(Applicable)	Appuriosturado D				
_		(Applicable in	nanulacturer's Da	ata Records to be atta	ched)		
	We certify that the conforms to the re Type Code Symb Certificate of Auth	e statements mandles of the ASM ol Stamp N/A	ade in the rep E Code, Sect	ion XI.			cement
	$\langle \ \rangle \langle \ \rangle$	<i>ι</i> Λ Λ	<u></u>	EX	piration Da	ate <u>N/A</u>	
	Signed Z S Owner	or Owner's Design	ee, Title	Date ,	12-10	. 1999	9
•							· · · · · · · · · · · · · · · · · · ·
	1 46	CERTIFIC	ATE OF INSE	RVICE INSPECT	TION		
	I, the undersigned Pressure Vessel In HSBI and I Compa Owner's Report duknowledge and be described in this OXI. By signing this certor implied, concerned the port of Furtherman Preport Furtherman Pressure Pres	any of Hartford (uring the period lief, the Owner I wner's Report i tificate neither to ning the examina	De State or Properties of Prop	ovince of	e compone nd state the nd taken conents of As	and entents described to the lorrective residence Code	nployed by ribed in this best of my measures e, Section , expressed
i	any personal injury inspection.	75. HURLING THE	IDSDECTOR DOC	his employer shal s of any kind arisi	I ha liabla	·	
i	nspector's Signature			National Board, S	tate, Provinc	e and Endo	rsements
	Date <u>/2 - /0</u> , 9	9					

ASI	ΜF	Sect	ion	XI.	Manual

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			1a. Date 12-11-99
		526 S. Church Street, Charlotte NC 28201-1006			Sheet of
2.	Plant Address:	OCONEE NUCLEAR STATION			
	_	7800 ROCHESTER HWY, SENECA, S.C. 29672			
2a.	Unit: 1	3 Shared (specify Units	_)		
3.	Work Performed By Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #:_	98154002 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM or MM #: _	13283
		System:			
5.	(a) Applicable Con(b) Applicable Edit	struction Code: <u>ANSI B31.7 1969</u> Edition, lon of Section XI Utilized for Repairs or Replacements: <u>1989.</u>	Addenda, No Addenda (1992 through 1	992 Addenda for Clas	Code Cases s MC and CC and their supports
6,	Identification of Con	nponents Repaired or Replaced and Replacement Componen	ts:		

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped
A	SIR						Replacement	(yes or no)
``				;			Repaired,	(No)
	Z-53B-1439B-H5506	DPC	NA	NA	NA	NA	Replaced,	
В	SIR	<u> </u>	10//	107	1077	100	Replacement	Yes
-	J-77						Repaired,	(No)
	2-538-5-0-14398-459	DPC	NA	NA	NA	NA	Replaced,	
C	3 - 1 - 10 - 10 - 11	<u> </u>		,0,1	107		Replacement	Yes
			'			1	Repaired,	No
			,				Replaced,	
D							Replacement	Yes
	1						Repaired,	No
		•	<u> </u>			1 1	Replaced,	
E							Replacement	Yes
-							Repaired,	No
	1					1	Replaced,	
F		······································					Replacement	Yes
Г							Repaired,	No
							Replaced,	1
						l l	Replacement	Yes

for	n.	
7.	Added New S/R 2-538-14398-45506 Description of Work Mad: Fied S/R 2-538-5-0-14398-459A IAW ONDE-1328	3
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt	
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F	
9.	Remarks	
	(Applicable Manufacturer's Data Records to be attached)	
	CERTIFICATE OF COMPLIANCE Ve 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.	
	Signed Code Symbol Stamp N/A Expiration Date N/A Expiration Date N/A	
	Owner or Owner's Designee, Title Date 12~/1, 1499	
-		

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
- "" prod; concerning the examinations and corrective measures described in the con-
Inspector's Signature Commissions National Board, State, Province and Endorsements
Date/2 - //

ASME Section XI Manual

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			1a. Date <u>/2-//-99</u>
		526 S. Church Street, Charlotte NC 28201-1006			Sheet of
2.	Plant Address:	OCONEE NUCLEAR STATION		1	
	_	7800 ROCHESTER HWY, SENECA, S.C. 29672			
2a.	Unit: 1 (2)	3 Shared (specify Units)		
3.	Work Performed By Address:	Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #:	98205270 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM o(MM)#:_	14175
4.	(a) Identification of	System:	4. (b) Class of System: _		
5.		struction Code: Edition, ion of Section XI Utilized for Repairs or Replacements: 1989	Addenda, No Addenda (1992 through 1	1992 Addenda for Clas	Code Cases S MC and CC and their supports
6.		nponents Repaired or Replaced and Replacement Componer			

	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)
	2-53B- 435B-H5507	DPC	N/A	NA	NA	NA	Repaired, Replaced, Replacement	No Yes
В			,				Repaired, Replaced, Replacement	No Yes
Ċ							Repaired, Replaced, Replacement	No Yes
D					7		Repaired, Replaced,	No
Ε							Replacement Repaired, Replaced,	Yes No
F					***************************************		Replacement Repaired, Replaced,	Yes No
	LL	······································	<u> </u>				Replacement	Yes

7. Description of Work_MODIFY SUPPORTS PER BE-14175
8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
Pressurepsig
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 Signed N/A Signed N/A Date /2-/1-99 Owner or Owner's Designee, Title
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions National Board, State, Province and Endorsements

ASME Section >	(I Manual
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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			et 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 Address:	: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order # : 98156	
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM-or MM #: _/328	5
4.	(a) Identification of	System: LP	4. (b) Class of System: _	2	
5.	(a) Applicable Con(b) Applicable Edit	struction Code: <u>ANSI B31.7 1969</u> Edition, on of Section XI Utilized for Repairs or Replacements: <u>1989</u> ,	Addenda, No Addenda (1992 through 1	1992 Addenda for Class MC and CC	Code Cases and their supports
6.	Identification of Con	nponents Repaired or Replaced and Replacement Componer	its:		

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
	5/R 2-53B-1439C-H5505	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	Yes
	<i>SIR</i> 2-538- 438c-H5501	DPC.	NA	NA	NA	NA	Replaced, Replacement	No) Yes
	5/R 2-53B-5-0-1439C-H33	DPC	NA	NA	NA	NA	Replaced, Replacement	্বিট Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced,	No
F							Replacement Repaired, Replaced,	Yes No
							Replacement	Yes

form.	·									
	Added New 5/R 2-53B-1439C-45505									
7. [scription of Work Modified Support/Rostraints IAW DNOE 13285									
8. T	st Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt									
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F									
9. R	marks									
	(Applicable Manufacturer's Data Records to be attached)									
Wo	CERTIFICATE OF COMPLIANCE certify that the statements made in the report are correct and this repair or replacement forms to the rules of the ASME Code, Section XI.									
Ce	e Code Symbol Stamp N/A ificate of Authorization No. N/A Expiration Date N/A Owner or Owner's Designee, Title									
÷										

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
Inspector's Signature Commissions NC914 National Board, State, Province and Endorsements
Date _/2- //

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 <u>5-/2</u> Sheet <u>/</u> of		
2.	Plant Address		ıclear Station 139, Seneca, S.C. 2	29679						Sheet ₋	of	
2a.	. Unit	□1 ∫	Ž 2 □3	☐ Shared (spe	ecify Units		_)	3a W	lork Order :	# 97042	8446	
3.	Address 52	26 S. Church	ke Power Company Street, Charlotte, mp N/A Authorization	NC 28201-1006		4		3b. N	SM or MA	# 97048 Repair Organ # 946	ization Job #	
		on of System_			Class							
5.	(a) Applica (b) Applica	ible Constructible Edition of	etion Code <u>AMS/</u> f Section XI Utilized	#3/-7 19 d for Repairs or R	eplacements 1	August F 1989, No Addenda	Addenda, a	· ··············	MX		Code Cases	
6.	Identificatio	n of Compon	nents Repaired or R	Replaced and Rep	lacement Corr	nponents			•			
	Ċol	lumn 1	Column 2	2	Column 3	Column 4	Column	1 5	Col. 6	Column 7	Column 8	
										· · · · · · · · · · · · · · · · · · ·		

	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	VLV. ZLP-40	CEME	NA	NX		NA	☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes
В	VLV. ZLP.40	CRANE ANCHOR DARLING	E2712.1.4	1983		1997	Repaired Replaced Replacement	☐ No 🔀 Yes
С							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

7. Description of Work MOVED & REPLACED ZLP. 40 W/A DMV-1089
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 460 psig Test Temp. 71.6 °F
Pressure psig Test Temp °F
Pressure psig Test Temp °F
9. Remarks Weld # 2LP144-1 tested IAW ASME
Code Case N416-1.
weld # ZLP144-Z was hydrostatically tested
(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 Symuol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed & Mason DA Spec Date 7-13, 1998
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 and employed by HSBI and I Company of and employed by HSBI and I Company of
Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-19-48 to 7-14-98; 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 (Kapman Commissions NC914
Inspector's Signature National Board, State, Providence and Endorsements
Date

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

					o. The Aon	in odde ocollon	NI.		
1.	Owner Address	Duke Power 526 S. Chur	r Company ch Street, Charlotte, N	C 28201-1006				1a. Date	5-13-98 1 of 1
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet	of
2a.	Unit	□ 1 · · · · · · · · · · · · · · · · · ·	¥ 2 □3 □	Shared (specify Units		_)	lark Ordan	971181	737.
3.	Address 52	S. Church	e Power Company Street, Charlotte, NC : p N/A Authorization No	28201-1006 b. N/A Expiration Date N/A				# <u>97087</u> Repair Organ	
			HP						
5.	(a) Applical	ole Construct ole Edition of	ion Code <i>ANSI B3</i> Section XI Utilized for F	19 <u>69</u> Edition, <u>M</u> Repairs or Replacements 198	<i>ugu5T</i> A 89, No Addenda	ddenda,	VX		Code Cases
6.	Identification	of Compone	ents Repaired or Replac	ced and Replacement Compo	onents				
	Coli	ımn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of 0	Component	Name of Manufactur	rer Manufacturer Serial Number	National Board	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped

	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	VLV. ZHP-Z49	VERN	NA	NX		NX	☐ Repaired ☐ Replaced ☐ Replacement	☑ No ☐ Yes
В	VLV ZHP-249	ANCHOR BU	I) EZ194-1-9	Z008		1997	☐ Repaired ☐ Replaced ☒ Replacement	☐ No ⊠ Yes
С	PIPING	D.P.Co.	WD	NX		9/74	☐ Repaired ☐ Replaced ☑ Replacement	☑ No ☐ Yes
D							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

7. Description of Work SEPLACED ZHP-Z49 W/A DMV-1142.
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 Tested IAW ASME Code Case N416-1
(Applicable Manufacturer's Data Records to be Attached)
OF DIFFORTE OF COURT LANGE
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 Sym⊳ol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Nacon Date 8-5, 1998 Owner or Owner's Designee, Title
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of
YM3 Chapman Commissions JC914 Inspector's Signature National Board, State, Providence and Endorsements
Date

F

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 526 S. Churc	Company ch Street, Charlotte, NC 2	8201-1006					4-27-98 1 of 1
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679		·			Sneet_	<u> </u>
	a. Unit								
	Address 52 Type Code	6 S. Church S Symbol Stam	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/					Repair Organi 1 #	
4.	Identificatio	n of System_	HPI	Class	<u> </u>				
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	ion Code ASI BSI. Section XI Utilized for Repa	19 <u>67</u> Edition, <u> </u>	, No Addenda	ddenda, <i>\lambda</i>	×		_Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced	and Replacement Compor	nents				
	Col	umn 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	VLV. ZHPI	-116	ANCHOR DARLING	EZ64Z-1-1	1927		1969	Repaired Replaced Replacement	☐ No ▼ Yes
В	VLV. ZHPI	-116	VEZAN	NA	NX		NX	☐ Repaired ☑ Replaced ☐ Replacement	☑ No ☐ Yes
С	PIPIN)6	D.P.Co.	NX	NA		9/14	☐ Repaired ☐ Replaced ☑ Replacement	☑ No □ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

No

Repaired Replaced Replacement

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 KEPLACED ZHP-116 W/A DMV-1074 & PIPING. ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure psia Test Temp. °F Pressure psig Test Temp. Pressure psig Test Temp. Code Case N416-1 Tested IAW ASME (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 Date 7-/3 . 1998 Owner or Owner's Designee, 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-22 98/ to 7-14-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NC914 Inspector's Signature National Board, State, Providence and Endorsements Date 7-14, 1998

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

1.	Owner Address						1a. Date <u>5-27-98</u>
2.	Plant Address	Oconee Nuclear S P.O. Box 1439, Se		9679			Sheet/ of _/_
2a.	Unit	□ 1 1 2	□ 3	Shared (specify Units)	0	C+5+1 (/A
3.	Address 52	rmed By Duke Pow 6 S. Church Street Symbol Stamp N/A	, Charlotte, I	NC 28201-1006 n No. N/A Expiration Date N/A		3a. Work Order #	pair Organization Job #
4.	Identification	n of System	HP	Class <u>Z</u>		-	
5.	(a) Applica (b) Applica	ble Construction Co ble Edition of Section	ode <i>MSI</i> on XI Utilized	B31.7 1969 Edition, Augustor Repairs or Replacements 1989, No	Addenda, Addenda		Code Cases
6.	Identification	n of Components R	epaired or Re	eplaced 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	PIPING	D.P.Co.	NA	NSA		9/74	☐ Repaired ☐ Replaced ☑ Replacement	No □ Yes
В							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
E							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work KEPLACED ZB HPI PMP. MIN. RECIRC. ORFICE. ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 8. Test Conducted: ☐ Exempt Pressure psia Test Temp. Pressure ____psig Test Temp. Pressure Test Temp. 9. Remarks Tested TAW ASME ~ase (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 Symuol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Date 10-30 19 98 Signed 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 Hartford Connecticut have inspected the components described in this Owner's Report during the period to 11-2-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions_ NC914 Inspector's Signature National Board, State, Providence and Endorsements Date //- 2 , 19 9 8

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 Pov 526 S. Ch		npany reet, Charlo	tte, NC 28	201-1006					8-11-98 1 of 1		
2.	Plant Address	Oconee N P.O. Box		Station eneca, S.C. 2	29679					0,,001	<u> </u>		
2a.	Unit	□ 1	X 2	□ 3	☐ Sha	red (specify Units		_)	lork Orda	98042	2573.04		
3.	Address 52	Nork 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 # <u>98042573.04</u> Repair Organization Job # 3b. NSM or MM #				
4.	Identificatio	n of Syster	n	1FDW		Class	2						
	(a) Applicable Construction Code ANSI B31.1 19 67 Edition, JULY Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda												
6.	Identificatio	n of Compo	onents F	Repaired or F	Replaced a	nd Replacement Compo	onents	T					
	Col	umn 1		Column 2	2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8		
****		Componer		me of Manu		Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)		
Α	MFW 7 # 28 0	SER V 0156	·ZA	B+W		NA	NA	# 28	1990	☐ Repaired ☐ Replaced ☒ Replacement	⊠ No □ Yes		
В										☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes		
С				W 18 819 ·						☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
D										☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes		
E				····						☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		
F		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes		

7. Description of Wor	K REPLACE	D BOLTIN	JE IN BOTH SHEL	L & HEAD	ER FLANGES
8. Test Conducted:	Hydrostatic	☐ Pneumatic	☐ Nominal Operating Pressu	ıre 🗌 Other	X Exempt
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
9. Remarks					
	(Ap	olicable Manufact	urer's Data Records to be Attach	ed)	
	****	CERTIFICATE	OF COMPLIANCE		
We certify that the	e statements made		correct and this repair or repla	acement conform	is to the rules
of the ASME Code,	Section XI.				
Type Code Symuol S	Stamp N/A				
Certificate of Authori	zation No. N/A		Expiration Date	N/A	
Signed 4.1	Owner of Owner	OA Soll 's Designee, Title	pare 8-11-9	\$ ₁₉	
		188			
			NSERVICE INSPECTION		
I, the undersigned	l, holding a valid co	mmission issued	by the National Board of Boile and employed by	and Pressure Ve	essel
Hartford Connectic	ut have inspected '	the components	described in this Owner's Repo	t during the perio	od 5-4-58
to <u>8- /2-98</u> ; and	state that to the be	est of my knowled	lge and belief, the Owner has p	erformed examina	ations and
Section XI.			port in accordance with the req		
By signing this cer	rtificate, neither the	Inspector nor hi	s employer makes any warranty	, expressed or im	ıplied,
Inspector nor his em	ployer shall be liab	cuve measures d le in any manner	escribed in this Owner's Report for any personal injury or prope	r. Furthermore, ne ertv damage or a	ither the loss of any
kind arising from or o	connected with this	inspection.	, , , , , , , , , , , , , , , , , , ,	or a second	is a single
man all		~			ļ
Inspector's Sig	car Co	ommissions	NC914		
			National Board, State, Provide	nce and Endorse	ments
Date_8-12, 19	28				

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 Com 526 S. Church St		te, NC 28201-1006			1a. Date 12-1-98	
2.	Plant Address	Oconee Nuclear S P.O. Box 1439, Se		9679			Sheet <u>/</u> of <u>/</u>	
2a.	Unit	□ 1	□ 3	☐ Shared (specify Units)	On Mark Onder !!	98084956	
3.	Address 52	rmed By Duke Pow 26 S. Church Street Symbol Stamp N/A	t, Charlotte,			3a. Work Order # 3b. NSM or **The state of the state o	Repair Organization Job #	
4.	Identificatio	on of System	FDW	Class	2			
5.	(a) Applica (b) Applica	able Construction Co able Edition of Section	ode <i>XVS</i> on XI Utilized	B31. 1967 Edition, 1967 I for Repairs or Replacements 196	Addenda, 39, No Addenda		Code Cases	
6	Identificatio	in of Components B	Renaired or R	enlaced and Replacement Comp	nnente	,		

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Cól. 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		NA	NA	NSA	NA	NA	☐ Repaired ☑ Replaced ☐ Replacement	☑ No ☐ Yes
В	BOLTING	NA	NA	NX	NA	NX	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
С							☐ 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)

7. Description of Wor	k <u>LEPLACEU</u>	BELLING	ON 28 DISG MFDW	MISERS NOS. 1, 20							
8. Test Conducted:	☐ Hydrostatic	E To S.6 □ Pneumatic	SHELL. 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 S	Stamp N/A			·							
Certificate of Authori	Certificate of Authorization No. N/A Signed 1. Subscript OA SPECIALIST Date 12-1, 19 98 Owner of 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											
MB Chapma Inspector's Sign	Com nature	nmissions	National Board, State, Providence	and Endorsements							
Date /2-/ , 19	98										

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

1.	1. Owner Address Duke Power Company 526 S. Church Street, Charlotte, NC 28201-1006 2. Plant Oconee Nuclear Station P.O. Box 1439, Seneca, S.C. 29679							•••	1a. Date //-30-98		
2.									Sheet of		
2a.	Unit	□1 .	2	■ Shared Shared	I (specify Units)	20 Mode Orden II	98086373		
3.		6 S. Church	h Street, C	, - ,				3a. Work Order # _	Repair Organization Job #		
	Identificatio	•		DW	Class	2					
5.	(a) Applica (b) Applica	ble Construction of	ction Code of Section 2	ANSI B3/. / XI Utilized for Repairs	_ 19 <u>67</u> Edition, or Replacements 1	5/1/24 989, No Adde	Addenda, nda		Code Cases		
6.	Identification	n of Compoi	nents Repa	aired or Replaced and	Replacement Corr	nonents					

ο.	identification of	Components	Repaired or	неріасеа	and Replacement	Components

	Column 1	Column 2	Column 3	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	BOCTING	NA	NA	NA	NA	NA	☐ Repaired ☑ Replaced ☐ Replacement	⊠ No □ Yes
В	BOLTING	NA	NA	NA	NX	NA	☐ Repaired ☐ Replaced ☒ Replacement	☑ No ☐ Yes
С							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

Date__/2-/___, 19<u>98</u>/_____

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work KEPLACED BOLTING ON ZA OTSG MFDW RISERS NOS. 10 + 22 E FLANGE TO S.G. SHELL. Hydrostatic Pneumatic Nominal Operating Pressure Other X Exempt 8. Test Conducted: Pressure ____psig Test Temp. Pressure ____psig Test Temp. Pressure _____psiq Test Temp. 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 Symuol Stamp N/A Certificate of Authorization No. M/A Expiration Date N/A OA SPECIALIST Date 12-1 19 93 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 ________________________________ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 10-8-18 to 12-1-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NC 914 Inspector's Signature National Board, State, Providence and Endorsements

F

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

								•		
1.	Owner Address		er Company Irch Street, Char	lotte, NC 2	8201-1006					6-30-99 1 of 1
2.	Plant Address		uclear Station 439, Seneca, S.C	. 29679					Sheet _	<u>Z</u> of <u>Z</u>
a.	Unit		2 3	☐ Sha	ared (specify Units)	Work Order		131
3.	Address 52	6 S. Church	ke Power Compa Street, Charlott	e. NC 2820	01-1006				# <u>98172</u> Repair Organi # <u>13</u> 8	
4.					A Expiration Date N/A Class	7	3b.	NSM or MAN	1# <i>1.50</i>	32
5.	(a) Applica	ble Construc	ction Code	/ <i>1851. /</i> ed for Repa	Class	Tucy Addenda	ldenda,			_Code Cases
6.	Identificatio	n of Compo	nents Repaired or	Replaced a	and Replacement Compo	nents				
	Col	umn 1	Column	1 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
		Component		ufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	MFDW ZO ON	RISER# OTSG Z	B 841	J	5/6-5/N 620-0004-53	5-1 N107		1970	☐ Repaired ☐ Replaced ☒ Replacement	No Yes
В									☐ 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

7. Description of Wor	k <u>NEPONCE</u>	D EXTING	ON KISER TO SH	ELL PLAN	GE ON KISER			
8. Test Conducted:	Hydrostatic	Pneumatic	Nominal Operating Pres	ssure 🗌 Oth	ner 🗌 Exempt			
	Pressure	psig	Test Temp.	°F				
	Pressure	psig	Test Temp.	°F				
	Pressure	psig	Test Temp	°F				
9. Remarks								
	(Ap _l	olicable Manufactu	urer's Data Records to be Atta	ched)				
We certify that the of the ASME Code, s	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 S	Stamp N/A							
Certificate of Authori	zation No. N/A		Expiration Da	ata N/A				
hell /	12/	h on so	CIALIST Date 6/30					
Signed / /////	Owner or Owner	's Designee, Title	Date 6/3					
				W				
	CERT	IFICATE OF I	NSERVICE INSPECTION	 N				
I, the undersigned	l, holding a valid co	mmission issued	by the National Board of Boi	ler and Pressu	re Vessel			
Inspectors and the S	tate or Providence	of	and employed	by HSBI and I	Company of			
to 6-30-99 and	ut nave inspected state that to the be	tne components o	described in this Owner's Rep ge and belief, the Owner has	oort during the	period <u>6-20-99</u>			
taken corrective mea	sures described in	this Owner's Rep	port in accordance with the re	equirements of	the ASME Code,			
By signing this cer	rtificate, neither the	Inspector nor his	employer makes any warrar	nty, expressed	or implied,			
Inspector nor his em	ilnations and correct plover shall be liab	ctive measures de le in any manner	escribed in this Owner's Repo for any personal injury or pro	ort. Furthermor	e, neither the			
kind arising from or o	connected with this	inspection.	for any personal injury of pro	perty damage	of a loss of any			
, ,,		•						
MB Chapme	an Co	ommissions	NC 914					
Inspector's Sig			National Board, State, Providence	dence and End	dorsements			
Date <u> </u>	99							

ASME Section XI Manu	ıa	٦	ar	М	XΙ	tion	Sec	Ε	ŜМ	4
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1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date <u>//-23-9</u> 9 Sheet <u>/</u> of <u>/</u>
2.	Plant Address:	OCONEE NUCLEAR STATION 7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	. Unit: 1 💋	3 Shared (specify Units)		
3.	Work Performed By Address:	2: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98154002 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM#:_	13283
4.	(a) Identification o	System: 4. (b) Class of System: _	2	
5.	(a) Applicable Cor (b) Applicable Edit	struction Code: <u>M/S/B3/.7</u> Edition, <u>8/69</u> Addenda, ion of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> (1992 through 1		Code Cases

6. Identification of Components Repaired or Replaced and Replacement Componen					
	Column 1	Column 2	Column 3	T C0	

	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)
Α	VLV. ZLP-17	BW	D426A-1-2	2111		1998	Repaired, Replaced, Replacement	Yes
В	YLV. ZLP-17	WALWORTH	C-45598	NA		NA	Repaired, Replaced, Replacement	√No Yes
С	PIPING	DUKE	NA	NA		9/74	Repaired,	₹Ø Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced,	No
	<u> </u>		L				Replacement	Yes

7. Description of Work Replaced Value ZLP-17					
8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt					
Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F					
9. Remarks Tested IAW ASME Code Case N416-					
(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 Signed Date Date					
·					
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					
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.					
Inspector's Signature Commissions NC9/4 National Board, State, Province and Endorsements					

ASME	Section	XLI	Manual
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1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006	1a. Date <u>//- Z/- 99</u> Sheet <u>1</u> of <u>/</u>
2.	Plant Address:	OCONEE NUCLEAR STATION 7800 ROCHESTER HWY, SENECA, S.C. 29672	
2a.	Unit: 1	3 Shared (specify Units)	
3.	Work Performed By Address:	526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order # : 98/56709 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:/3285
4.	(a) Identification of	. //	d a
5.	(a) Applicable Con: (b) Applicable Editi	struction Code: #NS/ B3/. 7 Edition, 8/69 Addenda, on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1995)	Code Cases 992 Addenda for Class MC and CC and their supports)
6.	Identification of Com	ponents 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.	Mig. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped
A	VLV. ZLP-18	ANCHOR DARLIN	5 D426A-1	2112		1998	Replacement Repaired, Replaced, Replaced	(yes or no) No
В	VLV. ZLP-18		C44922	NA		NA	Repaired, Replaced, Replacement	Yes
С	PIPING	DUKE .	NA	NA		9/74	Repaired, Replaced, Replacement	Yes
D							Repaired, Replaced, Replacement	No Yes
Ε		,					Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

7.	Description of Work
_	
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
	Pressurepsig Test Temp
	Pressurepsig Test Temp. ∘F
	Pressurepsig Test Temp °F
^	
9.	· ioinano ·
	ACMERICANED NOE & LEAKAGE TEST PER
	NIME CODE CASE N-416-1 IN LIFE OF HYDRO.
	(Applicable Manufacturer's Data Records to be attached)
	- The state of the
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this repoir are really
	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
	\sim
	Owner or Owner's Designee, Title
	The of Owner's Designee, Title
•	
	CEDTIFICATE OF WORDS
	CERTIFICATE OF INSERVICE INSPECTION I. the undersigned, holding a valid commission in the state of the state
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Pressure vessel Inspectors and the State of the Inspectors and the State of the Inspectors and Inspector
	Pressure Vessel Inspectors and the State or Province of
	HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period. Garage to the components described in this
	Owner's Report during the period <u>9-20-99</u> to <u>12-11-99</u> ; and state that to the best of my described in this converge Report is assembled examinations and taken corrective measures
	described in this Owner's Report in accordance with the requirements of ASME Code, Section
	XI. Section
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed
	The angle of the control of the cont
	Topota 1 difficilities, Heither the inspector nor his amployor shall be taken.
	potential injury of property damage or a loss of any kind arising from or connected with their
Ì	inspection.
,	MRN
-	nspector's Signature Commissions <u>JCG14</u>
'	National Board, State, Province and Endorsements
. {	Date 12-11 99

٩	SME	Section	ΧI	Manual

1.	Owner Address:	Duke Power Company		1a. Date 11-26-99
		526 S. Church Street, Charlotte NC 28201-1006		Sheet/ of _/
2.	Plant Address:	OCONEE NUCLEAR STATION		
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1 (2)	3 Shared (specify Units)		N.
3.	Work Performed By Address:	Duke Power Company 526 S, Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98220/96 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #: _	NA
	(a) Identification of	Ti (b) Olass of Cysteffi		
5.	(a) Applicable Con (b) Applicable Editi	struction Code: <u>ANSI B31.7</u> Edition, <u>August 1949</u> Addenda, on of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> (1992 through 1	MA 992 Addenda for Clas	Code Cases
_		•		The state of the s

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	ZA HPI PMP. PIPE FLANGE DISCHARGE) PIPE SIDE	DUKE	MX	NX		9/14	Repaired, Replaced,	NO
В	DISCHAPEE					///	Replacement	Yes
(PIPE SIDE						Repaired, Replaced,	No
С	1112012						Replacement	Yes
	,		,	1.			Repaired, Replaced,	No
D							Replacement	Yes
U				·	1		Repaired, Replaced,	No
E							Replacement	Yes
<u>.</u>	.,						Repaired, Replaced,	No
F							Replacement	Yes
۲							Repaired, Replaced,	No
	<u> </u>			<u> </u>		,	Replacement	Yes

7.	Description of Work MADE BMR BY WELDING ON ZA HPI PUM	0
	PIPING DISCHARGE FLANGE SEATING SURFACE.	
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt	
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed Signed Date 1Z-1, 99 Owner or Owner's Designee, Title	
•		
j G G G F	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	
7	MB Chapman Commissions WC914 National Board, State, Province and Endorsements	
· D	Date 12-2 99	ı

ASME Section XI N	Manual
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1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date <u>//-30-99</u> Sheet <u>/</u> of <u>/</u>
2.	Plant Address:	OCONEE NUCLEAR STATION		
2a.	Unit: 1 (2)	7800 ROCHESTER HWY, SENECA, S.C. 29672 3 Shared (specify Units)		
3.	Work Performed By: Address:	Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:_	9821999Z Repair Organization Job #
	Type Code Symbol S	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:	NA
4.	(a) Identification of	System:4. (b) Class of System:	2	
	(a) Applicable Cons (b) Applicable Edition	truction Code: ASMETIT Edition 1965 W/SUMMER 1960 on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1980)	67 ·	Code Cases MC and CC and their supports)
6.		ponents 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.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped
Α	2B OTSG UPPE	R	14-0				Replacement	(yes or no)
	SEC. MANWAY	BAW	620-0004-	N 107		1970	Repaired, Replaced,	No .
В	ZB OTSG UPPE SEC. MANWAY BOLTING.		5.5 - 1	71707		1110	Replacement	Yes
U	BOCIING.						Repaired,	No
				. '			Replaced,	V
C			,	<u> </u>	***************************************		Replacement Repaired,	Yes No
							Replaced,	140
D							Replacement	Yes
							Repaired,	No
<u>.</u>							Replaced, Replacement	Vaa
E							Repaired,	Yes No
- 1						İ	Replaced,	,,,,
F							Replacement	Yes
				}		ľ	Repaired,	No
							Replaced, Replacement	Yes

	7. Description of Work REPLACED BOLTING ON ZB OTSG UPPER
	SEC. MANWAY.
i	8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F
~	P. Remarks
-	
_	(Applicable Manufacturer's Data Records to be attached)
Г	
	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 Signed Fills Lisbary GASPECIALISTIA 11/30/99
_	Owner or Owner's Designee, Title
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed any personal injury or property damage or a loss of any kind arising from or connected with this
-	MB Chapman Commissions NC914 Inspector's Signature National Board, State, Province and Endorsements
_	Date 12-2 99

ASME Section XI Manual

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		1a. Date 12-2-99
		526 S. Church Street, Charlotte NC 28201-1006		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	/: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98125328
	Addioss.	320 3. Onbich Street, Chanotte NC 26201-1006		Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:_	13213
	(a) Identification o	ii (b) Glado di Gyalani.	1(A)	
5.	(a) Applicable Cor	Asystem: 4. (b) Class of System: 4. (b) Class of System: 4. (c) Class of System: 4. (d) Class of System: 4. (e) Class of Syste	W	Code Cases
	(b) Applicable Edit	ion of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1	992 Addenda for Clas	s MC and CC and their supports

٥.	identification of Compon	ents hepaired of Hepiaceo	and Replacement Components:
		Ţ~~	

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Mig. Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	ZA OTSG	B+W	620-0004-5	5-Z N-108		1970	Recaired, Replaced, Replacement	No .
В							Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced,	No
D							Replacement Repaired, Replaced, Replacement	Yes No Yes
Ε							Repaired, Replaced, Replacement	No Yes
H.							Repaired, Replaced,	No
			!		···		Replacement	Yes

7.	Description of Work PLUGGED 178 TUBES, REMOVED 2 TUBE SLEEVES B PLUGGING + REPOLLED 30 TUBE ENDS.	;y
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt	
	Pressurepsig Test Temp°F	
	Pressurepsig Test Temp °F	
	Pressurepsig Test Temp °F	
_		
9.	Remarks	
	(Applicable Manufacturado Data Data Data Data Data Data Data Dat	
	(Applicable Manufacturer's Data Records to be attached)	
	CEDITICATE OF COMPLIANCE	
	CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are contact and the contact and t	
	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.	
	The state of the field of the f	
	Type Code Symbol Stamp N/A	
	Certificate of Authorization No. N/A Expiration Date N/A	
	Signed Julius Z. Blutuush ON SPECINGST 12/2/99	
	Owner or Owner's Designate Title	
4		
	CERTIFICATE OF INSERVICE INSPECTION	
	I, the undersigned, holding a valid commission issued by the National B	
	1 1000dic 1 Cooci Hobecius and the State of Province of 11 4	
	The stropport during the Delibus 1/2/1/244 to 15 2 26 to 20 distants at 12 to 15	
	3 - Will DOUGH HIC OWING HAS DEHIGHNED BYSMINSHADO SAN FARE FOR A	
	The state of the s	
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed	
	The state of the control of the cont	
	The state of the state of the supplemental the supplemental by setting the state of the supplemental the sup	
	process injury of property damage or a loss of any kind arising from or connected with it.	
1	aspection.	
	Sur (IV)	
 1.	respector's Signature Commissions NC 914	
11	National Board, State, Province and Endorsements	
_ C	ate <u>/2 - 3 , 99</u>	

VOIME ORCHOLLY INSULISH	ASME	Section	XI Manua	١I
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1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date 12-2-99
2.	Plant Address;	OCONEE NUCLEAR STATION		Sheet _ C of _ Z
2a.	Unit: 1 (2)	7800 ROCHESTER HWY, SENECA, S.C. 29672 3 Shared (specify Units)		
3.	Work Performed By Address:	Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:_	98125329 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #: _	13214
4.	(a) Identification of	ii (b) Olado di Cystolli.	(A)	
5.		struction Code: Addenda, Edition, 965 W/1969, Addenda, on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1995)	992 Addenda for Clas	Code Cases s MC and CC and their supports
6.	Identification of Con	ponents 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 Mig.	Mfg. Serial No.	National Board No.	Other identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	28 0136	B+W	620-0004-53	-1 N-107		1970	Repaired,	No Yes
8							Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

SEEVED THERE FOR PENALULATING FOUR THAT W	AS
STEEVED THEREFORE REDUCING THE NUMBER OF SLEEVES IN SERVICE BY A REPOLLED 108 TUBE ENDS. 8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt)
Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed JULY Busines At Standard JULY 9 Owner or Owner's Designes Aitle	
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 to; 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.	
Inspector's Signature Commissions NCG14 National Board, State, Province and Endorsements Date 12-3 99	
	

ASME Section XI Manual

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

Section E Exhibit A

										•	• •		•	•••	_	•	• •			
As	Rec	ıulı	eq.	B۷	/Th	e Pr	ov	slo	วทร	Of	Th	e A	SN	ИE	Co	ode	Se	ection	ı XI	

1.	Owner Address:	Duke Power Company	1a. Date 12-4-	29
		526 S. Church Street, Charlotte NC 28201-1006	Sheet of	L
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 Address:	: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order # : 98154781 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: LP	4. (b) Class of System:	
5.	(a) Applicable Con (b) Applicable Editi	struction Code: <u>ANSIB31.7 8-196</u> Edition, on of Section XI Utilized for Repairs or Replacements: <u>1989</u> ,	Addenda, Code C No Addenda (1992 through 1992 Addenda for Class MC and CC and their su	ases

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.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
Α	Piping	DPC	NA	NA	NA	NA	Repaired, Replaced, Replacement	No Yes
В							Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced,	No
	<u> </u>	1				<u> </u>	Replacement	Yes

56 and 57

Form NIS-2 (Back)

7.	Description of Work Epawed punch wark in pipe between Webls
	Test Conducted ☐ Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempt
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed Date 12-6, 1999 Owner or Owner's Designee, Title
•	
I I I I I I I I	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
	Commissions NC914 Aspector's Signature National Board, State, Province and Endorsements National Board, State, Province and Endorsements

ASME Section XI Manual

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 <u>//-/7-9</u> 9 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 Address:	7: Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order # : 98/52450 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	f System: <u>LP</u> 4. (b) Class of Sys	tem:
5.	(a) Applicable Cor (b) Applicable Edit	nstruction Code: <u>ABIB31.7</u> Edition, <u>August 19k9</u> Edition, <u>Sugust 19k9</u> Edition of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> (1992 thr	Code Cases ough 1992 Addenda for Class MC and CC and their supports
6.	Identification of Cor	nponents 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 Míg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	VLV. ZLP-046	ANCHOR DARLING	ET153-3-4	1483			Repaired, Replaced, Replacement	No Yes
В	YLV. ZLP-096	ANCHOR DARLING	EB538-4-/	1309		1990	Repaired, Replaced, Replacement	No (GS)
С			·				Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced,	No
	<u> </u>		<u> </u>	·····			Replacement	Yes

7.	Description of Work Replaced Valve 2LP-46 with DMV-777									
8.										
	Pressurepsig Test Temp°F									
	Pressurepsig Test TempoF									
	Pressurepsig Test TempoF									
9.	Remarks									
-										
_										
	(Applicable Magnifestured Date Decode to be all the									
-	(Applicable Manufacturer's Data Records to be attached)									
	CERTIFICATE OF COURT INTO									
	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									
	Coefficient of A. H. C. M. A.									
	2									
	Signed $\angle N$ Major Date $2-5$, 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 and employed by HSBI and I Company of Hartford O.									
	FIGURATO COMPANY OF MARTIORS CONNECTIONS have inspected the components described in this									
	Owner's Report during the period <u>9-16-99</u> to <u>13-15-99</u> ; and state that to the best of my knowledge and belief, the Owner has no described in this									
	The contraction of the contraction of the correction measures and taken correction measures									
	described in this Owner's Report in accordance with the requirements of ASME Codo, Sostion									
	····									
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed									
	The second state of the second									
	or implied, concerning the examinations and corrective measures described in the Owner's									
İ	Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for									
i	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									
i	or implied, concerning the examinations and corrective measures described in the Owner's									
i	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.									
i	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 NC 514									
i	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.									

ASME Section XI Manual

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
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 Address:	/: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #:	9810930Z Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM or 1007#:	13298
4.	(a) Identification o	f System:	4. (b) Class of System: _	Z	
5.	(a) Applicable Cor (b) Applicable Edit	istruction Code: <u>ASME TTT</u> Edition,ion of Section XI Utilized for Repairs or Replacements: 1989	Addenda,No Addenda (1992 through 1	1992 Addenda for Cla	Code Cases ss MC and CC and their supports
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Compone	nts:	•	

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	VLV. ZSF-8Z	VELAN	992112-1	NA	,	NA	Repaired, Replaced, Replacement	No . Yes
В	VLV. ZSF-82	BW	5898	2205		1980	Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced, Replacement	No Yes
D				·			Repaired, Replaced, Replacement	No Yes
Ε							Repaired, Replaced, Replacement	No Yes
F	<u></u>						Repaired, Replaced,	No
						L	Replacement	Yes

7. Description of Work Neplaced Valve 2	SF8Z with a DMV-1222
8. Test Conducted: Hydrostatic Pneumatic	Nom. Operating Press. Other Exempt
Pressurepsig	Test Temp°F
Pressurepsig	Test Temp°F
Pressurepsig	Test Temp°F
9. Remarks	
(Applicable Magnifestured De	
(Applicable Manufacturer's Date	a Records to be attached)
CERTIFICATE OF We certify that the statements made in the representation of the ASME Code, Section Type Code Symbol Stamp N/A Certificate of Authorization No. N/A	of are correct and this repair or replacement
Similar Signature	
Signed Owner or Owner	Date <u>/-/Z</u> , Z000
Owner or Owner's Designee, Title	
•	
CERTIFICATE OF INSE I, the undersigned, holding a valid commission is Pressure Vessel Inspectors and the State or Pro HSBI and I Company of Hartford Connecticut ho Owner's Report during the period 9-20-99 to knowledge and belief, the Owner has performed described in this Owner's Report in accordance XI. By signing this certificate neither the Inspector no or implied, concerning the examinations and con Report. Furthermore, neither the Inspector nor any personal injury or property damage or a loss inspection. Commission Inspector's Signature	ssued by the National Board of Boiler and byince of and employed by ave inspected the components described in this o; and state that to the best of my examinations and taken corrective measures with the requirements of ASME Code, Section or his employer makes any warranty, expressed rective measures described in the Owner's his employer shall be liable in any manner for sof any kind arising from or connected with this
Date 1-13 00	

Δ	SM	1=	Section	ΥI	Manual

1.	Owner Address:	Duke Power Company		1a. Date 11-26-99
		526 S. Church Street, Charlotte NC 28201-1006		Sheet <u>1</u> of <u>1</u>
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 Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98136/28-12 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: 4. (b) Class of System:	2	
5.		struction Code: ASME III Edition 98 WINTER 1969 Addenda, ion of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1	992 Addenda for Clas	Code Cases (s MC and CC and their supports)
6.	Identification of Con	nponents 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
ļ	LP1 COOLER ZA	ATLAS	886	736		1969	Repaired, Replaced, Replacement	(yes or no) No
В							Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced, Replacement	No Yes
D							Repaired, Replaced, Replacement	No Yes
Ε							Repaired, Replaced, Replacement	No Yes
F							Repaired, Replaced, Replacement	No Yes

7. Description of Work MECHANICALLI	FLUGGED TUBES NO'S, ROW E ZZ IN ZA LPI COOLER.
108E 10+22, ROW 4 TUE	EZZINZA LPI CODIEN
8. Test Conducted: Hydrostatic Pneumatic	Nom. Operating Press. Other Exempt
Pressurepsig	Test Temp °F .
Pressurepsig	Test Temp°F
Pressurepsig	Test Temp °F
9. Remarks	
14-15-14-14	
(Applicable Manufacturer's Da	ita Records to be attached)
CERTIFICATE OF	E COMPLIANCE
We certify that the statements made in the repo	ort are correct and this sensity -
conforms to the rules of the ASME Code, Secti	on XI.
Type Code Symbol Stamp N/A Certificate of Authorization No. N/A	
Seruncate of Authorization No. N/A.	Expiration Date N/A
Signed William & State on S	PLINIST Date 12-7-99
Owner or Owner's Designee, Title	
CERTIFICATE OF INSE	RVICE INSPECTION
I, the undersigned, holding a valid commission i	ssued by the National Board of Boiler and
The state of the s	Ovince of 1.7
- Company of Fallon Connecticity is	2VA increated the server of th
	0 /2-7-59 • ond of the first of the first
knowledge and belief, the Owner has performed described in this Owner's Report in accordance XI.	examinations and taken corrective measures
XI.	with the requirements of ASME Code, Section
By signing this certificate neither the Inspector n	or his employer makes any warranty, expressed
the state of the s	TOCTIVE MODEUROS deserbles it is a
The inspector har in	nic Ampiovor chall ha liable to
or property damage of a loss	of any kind arising from or connected with this
inspection.	S S S S S S S S S S S S S S S S S S S
MB/Papura - a	
Inspector's Signature Commission	ns NC 914
Date /2-7 99	National Board, State, Province and Endorsements

ASME Section XI Manual	ASME	Section	ΧI	Manual
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1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date <u>/Z-7-9</u> 9 Sheet <u>/</u> of <u>/</u>
2.	Plant Address:	OCONEE NUCLEAR STATION		
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1	3 Shared (specify Units)		
3.	Work Performed By Address:	/: <u>Duke Power Company</u> 526 S, Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98/255/7 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:	NA
4.	(-)	" (J), Jiaob of Cyclottin	· .	
5.	(a) Applicable Cor(b) Applicable Edit	istruction Code: <u>ANSI B3I.</u> Edition, <u>1967 WIMMEH 1969</u> ion of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> (1992 through	r 1992 Addenda for Cla	Code Cases ss MC and CC and their supports
_		ϵ		

٥.	racrumeation of Compon	erits hehaited of hebiaced	and Replacement Com	ponents:
1	Column 1	Column 2	Column 3	Col

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
	ZA OTSG KIS TO SHELLFLG.		NX	NA		1970	Repaired, Replaced, Replacement	Yes
	ZA OTSG RISE TO HEADER FLG	#13 B&W	NA	NA		1970	Repaired, Replaced, Replacement	Yes
С	ZA OTSG RISE TO SHELL PLG.	R #ZZ BHW	NA	M		1970	Repaired,	Yes
	ZA OTSG RISE TO HEADER FLG		NA	NX		1970	Repaired, Replaced, Replacement	Yes
	ZA OTSG RISE TO HEADER FL	R 5.#27 BAW	NX	NX		1970	Repaired, Replaced, Replacement	Yes
F							Repaired, Replaced,	No
	<u> </u>			<u> </u>			Replacement	Yes

7.						
	FLANGESTIO OBTAIN ORIG. DIMENSIONS.					
8.	Test Conducted: Hydrostatic Pneumatic Nom Operating Press. Other Exempt					
	Pressurepsig Test TempoF					
	Pressurepsig Test Temp°F Pressurepsig Test Temp°F					
9.	Remarks					
	(Applicable Manufacturer's Data Records to be attached)					
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 Signed Owner or Owner's Designee, Title						
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of					
	National Board, State, Province and Endorsements					

ASME	Section	ΧI	Manual

1.	Owner Address:	Duke Power Company		1a. Date <u>1Z-10-9</u> 9
		526 S. Church Street, Charlotte NC 28201-1006		Sheet of
2.	Plant Address:	OCONEE NUCLEAR STATION		
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1	3 Shared (specify Units)		
3.	Work Performed By Address:		3a. Work Order #:_	98141528
	Addiess.	526 S. Church Street, Charlotte NC 28201-1006		Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #: _	12833
4.	(a) Identification of		2	
5.	(a) Applicable Con(b) Applicable Edit	struction Code: ANSI B31.7 Edition, 8/69 Addenda, on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1		Code Cases s MC and CC and their supports)
6.		ponents Repaired or Replaced and Replacement Components:		

	Column 1 Name of Component	Column 2 Name of Mfg.	Column 3	Column				
	Name of Component	I Name of Mfg		Column 4	Column 5	Col 6	Column 7	Column 8
A	1//. /	Ž.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
	VLV. ZHP-428	ANCHOR DARLING	E9127-93-	217	NA	1982	Repaired, Replaced, Replacement	No
	VLV. ZHP-4Z8	CZNE	C8343	NA	NA	NA	Replaced, Replaced, Replaced	No No
C	PIPING	DUKE	NX	· //x	NX	2/2	Repaired, Replaced, Replacement	Yes
D							Repaired, Replaced, Replacement	No Yes
E							Repaired, Replaced,	No
F							Replacement Repaired, Replaced, Replacement	Yes No Yes

7. Description of Work NEPLACED VLV. ZHP 928 W/A DmV-1219
8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F
9. Remarks NDE + SYS. LEAK TEST PER ASME CODE CASE N916-1
(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 Signed Date 12-10, 9 Owner or Owner's Designee, Title
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
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.
Inspector's Signature Commissions NC 914 National Board, State, Province and Endorsements
Date _/2.10 _, 99

1.	Owner Address	Duke Power Company 526 S. Church Street, Charlotte, NC 28201-1006		1a. Date <u>5-/2-98</u>
2.	Plant Address	Oconee Nuclear Station P.O. Box 1439, Seneca, S.C. 29679		Sheet of
2a.	Unit	☐ 1		97048461
3.	Work Perfo	rmed By Duke Power Company 6 S. Church Street, Charlotte, NC 28201-1006	3a. Work Order #	Repair Organization Job #
	Type Code	Symbol Stamp N/A Authorization No. N/A Expiration Date N/A	3b. NSM or ATTP#	9463
4.	Identificatio	n of System Class		
5.	(a) Applica (b) Applica	ble Construction Code <u>XVS1 B31.7</u> 19 69 Edition <u>August</u> Addenda, ble Edition of Section XI Utilized for Repairs or Replacements 1988, No Addenda	V	Code Cases

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	VLV. ZLP-4Z	VEZAN ENG	NA	NX	,	NA	☐ Repaired ☑ Replaced ☐ Replacement	✓ No ☐ Yes
В	VLV. ZLP.42	ANCHOR DARLING	EZ712-1-6	1985		1997	☐ Repaired ☐ Replaced ☑ Replacement	□ No ⊠ Yes
С	PIPING	D.P.Co.	NX	-NA		9/14	☐ Repaired ☐ Replaced ☑ Replacement	☑ No ☐ Yes
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

8 1/2 in. x	(11 in. (2) information in items	etches, or drawings may be used, provided (s 1 through 6 on this report is included on ea l and the number of sheets is recorded at the	ach
7. Description of Wor	K KEPLACED ZLP.	-42 W/A DmV-1089.	
8. Test Conducted:	_		exempt
	Pressure <u>660</u> psig	Test Temp. 7/, 6 °F	
	Pressure psig	Test Temp°F	
	Pressurepsig	Test Temp °F	
9. Remarks A 5	ystem Inservice Te	er formed on welds #	-)
(14)	A-52/4(d)) was pe	er tormed on welds #	· · · · · · · · · · · · · · · · · · ·
<u> 247</u>	<u>-147-5 76.</u>		
	(Applicable Manufactu	urer's Data Records to be Attached)	
	(Approacio manalecta	and a bata records to be Attached)	
We certify that the of the ASME Code, Some Code Symuol Some Certificate of Authorical Signed	e statements made in the report are s Section XI. Stamp N/A	Correct and this repair or replacement conforms to the substitution of the substitutio	he rules
Signed V	Owner or Owner's Designee, Title	Date 000 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	
Inspectors and the S Hartford Connecticate to <u>8-/9-98</u> ; and taken corrective mea Section XI. By signing this cere concerning the examulation in the section of the examulation in the section in the se	I, holding a valid commission issued state or Providence of	by the National Board of Boiler and Pressure Vessel and employed by HSBI and I Company described in this Owner's Report during the period 5-ge and belief, the Owner has performed examinations port in accordance with the requirements of the ASME semployer makes any warranty, expressed or implied, escribed in this Owner's Report. Furthermore, neither for any personal injury or property damage or a loss of the ASME of the ASM	s and Code, the of any
Date 8-19 . 19	98		

1.	Owner Address	Duke Power Company 526 S. Church Street, Charlotte, NC 28201-1006		1a. Date 3-//-9	
2.	Plant Address	Oconee Nuclear Station P.O. Box 1439, Seneca, S.C. 29679		Sheet / of /	
2a.	. Unit	☐ 1 ☐ 2 ☐ 3 ☐ Shared (specify Units)	On Monte Óude W	90121109	
3.	Address 52	rmed By Duke Power Company 6 S. Church Street, Charlotte, NC 28201-1006 Symbol Stamp N/A Authorization No. N/A Expiration Date N/A	3a. Work Order # 3b. NSM or MM #	Repair Organization Job #	
4.	Identificatio	n of SystemClass			
5.	(a) Applica (b) Applica	ble Construction Code #\S\ 83\.\ 1967 Edition, MARCH 69 Addenda,		Code Cases	
6.	Identificatio	n of Components Repaired or Replaced and Replacement Components	•		

6. Identification	tion of Components	Repaired or	Replaced an	nd Replacement	Components
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	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	MFW RISER # ZA-1 BOLTI	NG. NA	NA	NA		NA	☐ Repaired ☐ Replaced ☒ Replacement	☑ No ☐ Yes
В	# ZA-Z3 Bac	TING. NA	NA	NA		NA	☐ Repaired ☐ Replaced ☑ Replacement	No □ Yes
С	MFW RISER #ZA-32 Box	TING. 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

7. Description of Work

Form NIS-2 (Back)

8. Test Conducted:	Hydrosta	tic Pneumatio	Nominal Operating F	ressure	Exempt
	Pressure	psig	Test Temp.	°F	KISEK
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
9. Remarks					
		(Applicable Manufa	cturer's Data Records to be	Attached)	
		CERTIFICAT	TE OF COMPLIANCE		
We certify that the of the ASME Code,	e statements m Section XI.	ade in the report a	re correct and this repair or	replacement confo	rms to the rules
Type Code Symbol	Stamp N/A	•			
Certificate of Authori	ization No. N/	A / /	Expiration	Date N/A	
Signed Jilliu	Owner or Ov	vner's besignee, Ti	Date 	1999	
			:		
	CE	RTIFICATE OF	INSERVICE INSPECT	ION	
I, the undersigned	d, holding a val	id commission issu	ed by the National Board of	Boiler and Pressure	Vessel
Hartford Connectic	State or Provide	ence ofN	s described in this Owner's	ed by HSBI and I C	ompany of
to 3-/5-99 ; and	state that to th	e best of my knowl	edge and belief, the Owner	has performed exam	ninations and
taken corrective mea Section XI.	asures describe	ed in this Owner's F	Report in accordance with the	e requirements of the	e ASME Code,
By signing this ce	rtificate, neithe	r the Inspector nor	his employer makes any wa	rranty, expressed or	implied,
concerning the exan	ninations and c	orrective measures	described in this Owner's F	Report. Furthermore,	neither the
inspector nor his em kind arising from or	ipioyer snail be connected with	this inspection.	er for any personal injury or	property damage or	a loss of any
	*				
MB Chan	nan	Commissions	NAGIH		
Inspector's Sig	nature	,	National Board, State, P	rovidence and Endor	sements
Date <u>3-/5</u> , 19	99	•			

ASME Section XI Manual

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

Section E Exhibit A

As Required By The Provis	sions Of The ASME Code Section XI	

1.	Owner Address:	Duke Power Company		1a. Date 12-13-99
		526 S. Church Street, Charlotte NC 28201-1006		1a. Date <u>/2-/3-9</u> 9 Sheet <u>/</u> of <u>6</u> 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 Address:	Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98171387 Repair Organization Job #
		Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #: _	23032
4.	(a) Identification of	Ti (b) Class of System:		
5.		estruction Code: ASME III Edition, Sum. 1967, Addenda, on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through	1992 Addenda for Clas	Code Cases s MC and CC and their supports)
^		<u> </u>		and the second that the second

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	t	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped
	CROME C COCATION	NE	BHW/DPCO	137	* NA		XWX	Replacement Repaired, Reptaced, Replacement	(yes or no) No
B	и.	H4	4	146	NA		NX	Repaired, Replaced, Replacement	No Yes
C D	n	M9	4	120	NA		WX	Repaired, Repaired, Replacement	No Yes
E	" 4	18	7	152	NX		N/x	Repaired, Replaced, Replacement	No Yes
	'n	67	п	72	NA		NX	Repaired, Replaced, Replacement	No Xee
F	111000	F6	h	45	NX		NX	Repaired, Replaced, Replacement	No Yes

* HIGH RADIATION CORROSION & BORON BUILDUP MADE THE RETRIEVAL OF ADDITIONAL DATA PROHIBITIVE. FURTHER INFORMATION IS TRACEABLE age 1 of 2 TO THE CROM SERIAL NUMBER. DPCO = DIAMOND FOWER CORP. Revision 7

EPLACED CRDM'S CISTED.

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.

8. 9.	Test Conducted:	Pressure Pressure Pressure	psig	Nom. Operatir Test Temp Test Temp Test Temp	°F	Other	Exempt
	Homano						
_					-		
		(Applicable I	Manufacturer's Da	ata Records to be atta	ached)		
	·	CE	PTIFICATE	F COMPLIANCE			
	We certify that the conforms to the run. Type Code Symbol Certificate of Authorse Signed Owner	e statements manules of the ASM ool Stamp N/A	ade in the report of the Code, Section	ort are correct an ion XI.	d this repa	ato N/A	cement
							·
I I I I I I I I	I, the undersigned, Pressure Vessel In HSBI and I Compa Owner's Report du knowledge and bel described in this OXI. By signing this cert or implied, concern Report. Furthermoany personal injury inspection.	I, holding a valid inspectors and the same of Hartford (any of Hartford (and the period belief, the Owner is Report in the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore, neither the same ore.	d commission in the State or Properties of P	rovince of	tional Boar c.C. e compone and state the nd taken coments of AS makes any s described	and erents described to the orrective of the code	mployed by ribed in this best of my measures le, Section y, expressed wher's

Commissions

Inspector's Signature

National Board, State, Province and Endorsements

ASME Section XI Manual

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

Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006	1a. Date 12-13-99 Sheet 2 of 12
2.	Plant Address:	OCONEE NUCLEAR STATION 7800 ROCHESTER HWY, SENECA, S.C. 29672	0.1000
2a.	Unit: 1 (2)	3 Shared (specify Units)	
3.	Work Performed By Address:	: <u>Duke Power Company,</u> 526 S, Church Street, Charlotte NC 28201-1006	3a. Work Order # : 98/7/387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSMOr MM #:
4.	(a) Identification of	System: 4. (b) Class of System:	
5.	(a) Applicable Con(b) Applicable Editi	struction Code: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Code Cases 992 Addenda for Class MC and CC and their supports)

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replacemen
A	CRDM & CORE	(1) / X	•	¥		¥.	Repaired.

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

aced, or ASME Code Stamped (yes or no) No BAW/DPCO. Replaced, NA NA LOCATION DA 139 Yes Replacement Repaired, No Replaced. 4 U 117 4 YES С Repaired. No h Replacement E7 n 4 n Yes No Repaired, 4 h C5 Replaced, 131 " Replacement Е Repaired. K13 4 315 n Replaced, U Replacement Yes Repaired, n n 57 HIZ n n Replaced, Replacement res

Column 8

7. Description of Wo	ork REPU	ACED	CROMS	L15TE	D.	
8. Test Conducted	: Hydrostatic	Pneumatic	Nom Operatir	ng Press.	Other	Exempt
	Pressure	psia	Test Temp	۰F		
	Pressure		Test Temp.			
	Pressure	psig	Test Temp.			
9. Remarks		-				
	(Applicable N	Manufacturer's Da	ata Records to be atta	ached)		
We certify that the conforms to the response to the response to the response to the response to the conforms to the response to the conforms to the conformation t	e statements manules of the ASM ool Stamp N/A	ade in the rep E Code, Section	on XI.	d this repa	ate <u>N/A</u>	cement
I, the undersigned Pressure Vessel I. HSBI and I Compared Owner's Report do knowledge and be described in this Compared III. By signing this certain or implied, concern Report. Furthermore any personal injury inspection.	I, holding a valid nspectors and the any of Hartford (uring the period elief, the Owner Interest Parket Interest l commission in the State or Properties to P	ovince of	ional Boar C. e compone and state the d taken coments of As makes any described ll be liable ng from or	and enents described to the lorrective residence of the lorrective residence of the lorrective of t	nployed by ribed in this best of my measures e, Section , expressed wner's anner for ed with this	

SME	Section	ΧI	Manual

1.	Owner Address:	Duke Power Company		1a. Date <u>12-13-9</u> 9
		526 S. Church Street, Charlotte NC 28201-1006		Sheet 3 of 12
2.	Plant Address:	OCONEE NUCLEAR STATION		
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1	3 Shared (specify Units)	
3.	Work Performed By Address:	/: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order # :	98171387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:_	23032
4.	(a) Identification o		4. (b) Class of System:	
5.	(a) Applicable Cor (b) Applicable Edit	estruction Code: ASME 111 Edition, 110 In of Section XI Utilized for Repairs or Replacements: 1989	m. 1967 Addenda,	Code Cases
6	Identification of Cor	property Pensived or Penissed and Penissement Commun.		

6.	Identification of Components	Repaired or	r Replaced and	Replacement Components:
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	Column 1		Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Compo		Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
	CRDME	ecore GII	BHW/DPCO	149	* NA		X NA	Repaired, Replaced, Replacement	No (es)
В	n	E9		<i>3</i> 3	n		٨	Repaired, Replaced, Replacement	No (es
C	h	D8		95	n		n	Repaired, Replaced, Replacement	No (Tes)
0	ч	B6		122	٧,		n	Repaired, Replaced, Replacement	No No
E	n	F14		256	• >		v	Repaired, Repaced, Replacement	No (Tes)
F	n	E13		127	~		n	Repaired, Replaced, Replacement	No (es)

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 Wo	ork_ICEPU	ACED CI	RDM'S	LISTER)	
8.	Test Conducted:	: Hydrostatic	Pneumatic	Nom Oper	rating Press.	Other	Exempt
		Pressure	nsia	Test Temp.	۰F		
		Pressure		Test Temp Test Temp			
		Pressure		Test Temp			
9.	Remarks						
	·	·	Manufacturer's Da				
	We certify that the conforms to the run. Type Code Symbol Certificate of Auth Signed Owner	ne statements manules of the ASM colool Stamp N/A	ME Code, Section	oort are correct tion XI.	t and this repart Expiration Date	ete N/A	acement
·		CEDTIEN	OLTE OF INC				
; ; ;	I, the undersigned, Pressure Vessel Ir HSBI and I Compa Owner's Report du knowledge and bel described in this OXI. By signing this cert or implied, concern Report. Furthermoany personal injury inspection.	d, holding a valid Inspectors and the any of Hartford Inspectors and the any of Hartford Inspector of Hartford	Connecticut has performed in accordance the Inspector no attack and cordange or a loss	issued by the I rovince of	National Boar N.C. d the compone ; and state the s and taken con irements of As ver makes any ures described shall be liable arising from or	and enents described to the local corrective residue Code code code code code code code code c	mployed by cribed in this best of my measures le, Section y, expressed owner's
ĩ	Inspector's Signature	apman	_ Commissio	ns <u>NC91</u>	14		

National Board, State, Province and Endorsements

ASME Section XI Mai	nual
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2. Plant Address: OCONEE NUCLEAR STATION 7800 ROCHESTER HWY, SENECA, S.C. 29672	
2a. Unit: 1 2 3 Shared (specify Units)	
	spair Organization Job #
Type Code Symbol Stamp: N/A Authorization No. N/A Expiration Date: N/A 3b. NSM or MM #:	23032
4. (a) Identification of System:	
5. (a) Applicable Construction Code: AUMETITE Edition, Addenda, (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda for Class MC	Code Cases IC and CC and their supports)

6.	Identification of	Components	Repaired o	r Replaced and	d Replacement	Components:
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	Column 1		Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Compone		Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	CRDM @	CORE CII	BHW/DREO	172	* NA		*VA	Repaired, Replaced, Replacement	No (Yes)
В	и	B10	/ и	110	n		и	Repaired, Replaced, Replacement	No (Yes)
С	·N	LZ	и .	157	n		и	Repaired, Replaced, Replacement	No (Fes.)
D	4	K3	n	46	ท		h	Repaired, Replaced, Replacement	No (es)
Ε	ท	65	Ŋ	50	n		,,	Repaired, Replaced, Replacement	No (BS)
F	n	09	и	134	n		n	Repaired, Replaced, Replacement	No (es)

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exemples Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F 9. Remarks	mpt								
Pressurepsig Test Temp°F Pressurepsig Test Temp°F									
Pressurepsig Test Temp°F Pressurepsig Test Temp°F									
Pressurepsig Test Temp									
(Applicable Manufacturer's Data Records to be attached)									
(pplicable 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 Signed Symbol Stamp Symbol									
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 this f my res tion essed								

ASME Section XI Manual

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

Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date 12-13-9 Sheet 5 of 41
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 Address:	7: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98171387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSW or MM #:	23032
4.	(a) Identification o	System: 4. (b) Class of System:		
5.	(a) Applicable Con (b) Applicable Edit	struction Code: ASME III Edition, IIII Addenda,	992 Addenda for Clas	Code Cases ss MC and CC and their supports

6.	Identification of	Components	Repaired o	r Replaced and	d Replacement (Components:
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	Column 1		Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Compo		Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	CRDM (DEORE N) H6	B+W/DPCO	44	* NX		NA	Repaired, Replaced, Replacement	No (GS)
В	h	DIO	h	X169	N		'n	Repaired, Replaced, Replacement	No (es)
С	4	K9	n .	58	n		n	Repaired, Replaced, Replacement	No No
D	4	H10	n	51	N		~1	Repaired, Replaced, Replacement	No No
E	h	FIZ	n	164	31		11	Repaired, Replaced, Replacement	No No
F	n	07	и	60	n		ч	Repaired, Replaced, Replacement	No Yes

7.	7. Description of Work	EPLACED C	RDMS	CISTED	•	
8.	3. Test Conducted: Hydro	ostatic Pneumatic	Norn. Ope	rating Press.	Other	Exempt
	Pressu	ırepsig	Test Temp.	°F		
		repsig	Test Temp.	°F		
	Pressu	repsig	Test Temp.	°F		
9.	. Remarks			erene se		
				· · · · · · · · · · · · · · · · · · ·		
	(Ap	plicable Manufacturer's D	ata Records to be	e attached)		
	·					
	We certify that the statem conforms to the rules of the	CERTIFICATE Onents made in the reported he ASME Code, Section 1.00 cm.	ort are correc	ICE t and this repa	ir or repla	cement
٠	Type Code Symbol Stam Certificate of Authorization	p <u>N/A</u> n No. <u>N/A</u>		Expiration Da	ate N/A	
	Signed Owner or Owner	Blubaugh (DA) 's Designee, Title	SPECIAL BO		14.99	-
٠	4					
	CE	RTIFICATE OF INS	FRVICE INSP	ECTION		
	I, the undersigned, holding	a valid commission	issued by the	Motional Danie	rd of Roile	rand
,	Tropage Acasel Hisberfol	is and the State or Pr	rovince of	10		
2	TODI GITO I COMPANY OF IT	atuoto Connecticut I	nave inchecte	the company		
	a more a richort annual file	: Denon /2-31_cc	10 /2.4/ 00	· and atata th		1
- 1	knowledge and belief, the described in this Owner's XI	Report in accordance	a examination	s and taken co	orrective i	measures
	XI.		with the requ	mements of A	SME Cod	
3		alde and the state of				
2	By signing this certificate r	ettner the inspector i	nor his employ	er makes anv		·
	By signing this certificate r or implied, concerning the	examinations and co	rrective meas	urae dacariba	warranty	, expressed
E G	Report. Furthermore, neith	ner the Inspector nor	rrective meas	ures described	warranty	, expressed wner's
C F	man processing the	ner the Inspector nor	rrective meas	ures described	warranty	, expressed wner's
C F	Report. Furthermore, neitle any personal injury or prop	ner the Inspector nor	rrective meas	ures described	warranty	, expressed wner's
	Report. Furthermore, neith any personal injury or propinspection.	ner the Inspector nor	his employer s of any kind a	ures described shall be liable arising from or	warranty d in the O in any ma connecte	, expressed wner's anner for ed with this
E G	Report. Furthermore, neitle any personal injury or prop	ner the Inspector nor perty damage or a los	his employer s of any kind a	ures described	warranty d in the O in any ma connecte	, expressed wner's anner for ed with this

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Section E Exhibit A

1.	Owner Address:	Duke Power Company	1a. Date 12-13-9
		526 S. Church Street, Charlotte NC 28201-1006	Sheet 6 of 6
2.	Plant Address:	OCONEE NUCLEAR STATION	
	_	7800 ROCHESTER HWY, SENECA, S.C. 29672	
2a.	Unit: 1	3 Shared (specify Units)	
3.	Work Performed By Address:	7: Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006	der # : <u>98171387</u> Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A 3b. NSM or I	MM #:
4.	(a) Identification of	The contract of the contract o	
5.	(a) Applicable Con(b) Applicable Edit	istruction Code: ASME TITE Edition, LIM. 1967. Ion of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1992 Addenda)	Code Cases for Class MC and CC and their supports
6.	Identification of Con	nnonents Renaired or Replaced and Rapissoment Company to	

٥.	identification of Components	Repaired or F	Replaced and	Replacement C	Components:

	Column 1	·	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Com		Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	CKDM	ECORE 10NZ10	BHW/DPCO	306	X NA		NA	Repaired, Replaced, Replacement	No No
В	n	KII	И	156	n		n	Replacement	No No
С	n	G13	ν .	129	. и		ь	Repaired, Replaced, Replacement	No (ES)
D	9	H14	и	123	n		.41	Repaired, Replaced, Replacement	No (fes
E	н	P6	33	121	M		n	Repaired, Replaced, Replacement	No Yes
F								Repaired, Replaced, Replacement	No Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in 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 KEPLACED CRDM'S C15	TED
8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press	s. Other Exempt
Pressurepsig Test Temp°F	
Pressurepsig Test TempoF	
Pressurepsig Test Temp°F	
9. Remarks	
(Applicable Manufacturer's Data Records to be attached)	
We cortify that the state	
We certify that the statements made in the report are correct and this re-	pair 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	Data NI/A
Signed Silver ON SECISIST Date 12-1	14-99
- Cwiler of Owner's Designee, Title	
	•
CERTIFICATE OF MOTOMOR MOREOWAY	
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Re-	
I, the undersigned, holding a valid commission issued by the National Bo Pressure Vessel Inspectors and the State or Province of N.C.	
The state of the s	. 41
The control of the country that the company and the control of the	
of details of the second and the secure of the secure of the second of t	COFFECTIVE MEasures
By signing this certificate neither the Inspector nor his employer makes a	nv warranty, expressed
The angle of the control of the cont	
The state of the s	
any personal injury or property damage or a loss of any kind arising from inspection.	or connected with this
111	
MB Chapman Commissions NC 914	
Inspector's Signature National Board, State, Prov	vince and Endorsements

Date 12.14 . 99

ASME Section XI Manual

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

Section E Exhibit A

1.	Owner Address:	Duke Power Company		1a. Date 12-13-99
		526 S. Church Street, Charlotte NC 28201-1006		Sheet Z of 6
2.	Plant Address:	OCONEE NUCLEAR STATION		70912
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1 ②	3 Shared (specify Units)		
3.	Work Performed By Address:	Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:_	98/1/387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #; _	23032
4.	(a) Identification o	System: 4. (b) Class of System:		
5.	(a) Applicable Cor (b) Applicable Edit	ion of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1	992 Addenda for Clas	Code Cases s 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 Con	•	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
	CRDMA	CORE 10N N8	FRAMATOME TECH.INC.	1830	625		1974	Repaired, Replaced, Replacement	No (95)
В	и	H4	и	1824	619		1914	Repaired,	No Yes
C	4	M9	n	1834	629		1974	Repaired, Replaced, Replacement	No VES
0	4	18	n	1807	602		1974	Repaired, Replaced, Replacement	Mo.
E	h	67	н	1814	609		1974	Repaired, Replaced, Replacement	No Yes
F	4	F6	4	1806	601		1974	Repaired, Replaced, Replacement	No Yes

	Description of We	ork FEPO	ACED_	CRDM'S	615	TED	*
8.	Test Conducted			Nom. Operatin	g Press.	Other	Exempt
		Pressure Pressure	psig	Test Temp Test Temp	°F		
		Pressure	psig	Test Temp.			
9.	Remarks						
_							
						-	
		(Applicable N	Manufacturer's Da	ata Records to be atta	ched)		
	Type Code Symbolic Certificate of Authorities Signed	e statements manules of the ASM Ool Stamp N/A	ade in the reposite Code, Section	7	oiration Da		cement
<u> </u>	HSBI and I Comp	d, holding a valid hspectors and the any of Hartford (uring the period the lief, the Owner I	l commission i he State or Pri Connecticut h 	RVICE INSPECT issued by the Natiovince ofN(ave inspected the lo/2-/4-99; and examinations an	onal Board component d state the	and en ents descr at to the l	nployed by ibed in this pest of my

ASME	Section	ΧI	Manual	

Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date 12-13-99 Sheet 2 of 6
2.	Plant Address:	OCONEE NUCLEAR STATION		8 of 12
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1 🗷	3 Shared (specify Units)		
3.	Work Performed By Address:	: <u>Duke Power Company</u> , 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:_	98171387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #: _	23032
4.	(a) Identification of	System: 4. (b) Class of System:		
5.	(a) Applicable Con (b) Applicable Editi	struction Code: ASME III Edition, Im. 1967, Addenda,on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1	992 Addenda for Class	Code Cases s MC and CC and their supports)
6.	Identification of Con	ponents Repaired or Replaced and Replacement Components:		

		·	•				
	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column
	Name of Component	Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replace
A	CRDM & CORE	**************************************					Replacement Replacement

ASME Code Stamped laced, or (yes or no) No Repaired, LOCATION DA Replaced, Replacement 1811 606 (Y 83) Repaired, No 11 Replaced, FB 607 1812 1974 Replacement (69) C Repaired, No Replaced, 4 E7 1974 1810 605 **(** Replacement D Repaired, No C5 4 Replaced. 1827 622 (es Replacement Ε Repaired. K13 VI Replaced, 628 1833 Y Replacement Repaired. No h HIZ 615 Replaced, 1820 Replacement (CES)

Column 8

8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt Pressure	7.	Description of Work REPLACED CRDM'S LISTED.
Pressure	8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
Pressure		Pressurepsig Test Temp.
9. Remarks 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 Signed 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 A 22 To 12 H-194 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 of 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. National Board. State, Province and Endorsements National Board. State, Province and Endorsements		Pressurepsig Test Temp.
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 Signed Authorization No. N/A Signed Authorization No. N/A Expiration Date N/A Certificate of Authorization No. N/A Signed Authorization No. N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Signed Authorization No. N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Signed Authorization No. N/A Fersion Date N/A Expiration		
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 Signed Authorization No. N/A Signed Authorization No. N/A Expiration Date N/A Certificate of Authorization No. N/A Signed Authorization No. N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Signed Authorization No. N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Signed Authorization No. N/A Fersion Date N/A Expiration 9.	Remarks	
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 Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A In 12-14-99 Owner or Owner's Designer. Title Connecticut have inspected the components described in this Owner's Report during the period Symbol Symbo		
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 Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A In 12-14-99 Owner or Owner's Designer. Title Connecticut have inspected the components described in this Owner's Report during the period Symbol Symbo		
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 Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A In 12-14-99 Owner or Owner's Designer. Title Connecticut have inspected the components described in this Owner's Report during the period Symbol Symbo		
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 Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A In 12-14-99 Owner or Owner's Designer. Title Connecticut have inspected the components described in this Owner's Report during the period Symbol Symbo		
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 Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Expiration Date N/A In 12-14-99 Owner or Owner's Designer. Title Certificate of N/A In 12-14-99 I		(Applicable Manufacturer's Data Records to be attached)
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 Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Signed Symbol State N/A Certificate of Authorization No. N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Signed Symbol State N/A In 12-14-99 In 12-1		
Pressure Vessel Inspectors and the State or Province of	•	Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Signed VIII State 17-14-99
Pressure Vessel Inspectors and the State or Province of		
HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period	1	CERTIFICATE OF INSERVICE INSPECTION
Owner's Report during the period	i	Pressure Vessel Inspectors and the State or Pressure Vessel Inspector Vessel Inspectors and
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 ACGIN National Board, State, Province and Endorsements	Ī	SBI and I Company of Hartford Connecticut, have inspected the assume and employed by
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 ACGIV National Board, State, Province and Endorsements		
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 ACGIV National Board, State, Province and Endorsements		
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 Alcq14 National Board, State, Province and Endorsements)	discribed in this Owner's Report in accordance with the requirements of ASME Code, Section
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 Alcque National Board, State, Province and Endorsements		
any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Laplace Commissions Alcque National Board, State, Province and Endorsements	c	or implied, concerning the examinations and corrective magnetized described in the mispector for his employer makes any warranty, expressed
inspection. Inspector's Signature Inspector		The state of the s
National Board, State, Province and Endorsements		The state of the property and the proper
National Board, State, Province and Endorsements	,	In BOD
National Board, State, Province and Endorsements	Îr	
. vale 1.7.14 GG .	. D	National Board, State, Province and Endorsements ate _/2-14 . <u>99</u>

ASME Section XI Mai	nual	
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Section E Exhibit A

1.	Owner Address:	Duke Power Company		1a. Date 12-13-99
		526 S. Church Street, Charlotte NC 28201-1006		Sheek 3 of 6
2.	Plant Address:	OCONEE NUCLEAR STATION		9 of 12
		7800 ROCHESTER HWY, SENECA, S.C. 29672		·
2a.	Unit: 1 (2)	3 Shared (specify Units)		
3.	Work Performed By Address:	: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98171387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NEW or MM #:_	
4.	(a) Identification of	System: 4. (b) Class of System:		
5.	(a) Applicable Con (b) Applicable Editi	System:	992 Addenda for Clas	Code Cases s MC and CC and their supports
6.		aponents Repaired or Replaced and Replacement Components:		

	Column 1		Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
_	Name of Componer		Name of Mig.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	CRDM @ LOCATION	611		1818	613		1974	Repaired, Replaced, Replacement	No Y
В	4	E9		1809	604		1979	Repaired, Replaced, Replacement	No (es)
С	4	D8		1816	611		1914	Repaired, Replaced, Replacement	No (Tes)
D	4	B6		1829	624		1974	Repaired, Replaced, Replacement	No Yes
E	4	F14		1828	623	,	1944	Repaired, Replaced, Replacement	No Yes
F	4	E-13		1805	600		1974	Repaired, Replaced, Replacement	No (es)

7.	Description of Wo	ork KET	CACED	CRDM'S	<u> </u>	TED	<u> </u>
8.	Test Conducted	: Hydrostatic	Pneumatic	Nom. Operating	Press.	Other	Exempt
		Pressure	psia	Test Temp	۰F		
		Pressure		Test Temp.	_ . °F		
		Pressure		Test Temp.	_,; -∘;		
9.	Remarks						
		(Applicable I	Manufacturer's Da	ata Records to be attach	ed)		
			771510155	F COMPLIANCE			
÷	Type Code Symbocertificate of Authorities	e statements manules of the ASM of Stamp N/A	ade in the report of the Code, Section (A.)	ort are correct and ton XI.	this repair ration Dat	te <u>N/A</u>	cement
							•
	HSBI and I Compa Owner's Report du knowledge and be described in this O KI. By signing this cent or implied, concern Report. Furthermo any personal injury inspection.	, holding a valid nspectors and the spectors and the spectors and the speciod dief, the Owner owner's Report in tificate neither the specificate neither neither the specificate neither neith	I commission in the State or Proceedings of the State or Proceedings of the State of the Inspector of the In	RVICE INSPECTIONS SURED BY THE NATION OF MICE AND MICE AN	nal Board componer I state that taken counts of AS ukes any velescribed	and emnts descript to the t	nployed by ribed in this best of my neasures e, Section , expressed wner's
ł	nspector's Signature			National Board, Stat	te, Province	and Endo	rsements

	SME	Section	XI Manual
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Section E Exhibit A

1.	Owner Address:	Duke Power Company		1a. Date 12-13-99
		526 S. Church Street, Charlotte NC 28201-1006		Sheet 4 of 6
2.	Plant Address:	OCONEE NUCLEAR STATION		10 of 12
		7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1 (2)	3 Shared (specify Units)		
3.	Work Performed By Address:	Duke Power Company, 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:_	98171387
	Type Code Symbol		3b. NSW or MM #: _	Repair Organization Job #
4.	• • • • • • • • • • • • • • • • • • • •	11 (b) Oldoo of Oyotoffi.		
5,	(a) Applicable Cons (b) Applicable Editi	struction Code: ASME III Edition Sum. 1967. Addenda, on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 19	992 Addenda for Class	Code Cases s MC and CC and their supports)
6.		ponents 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.	Míg. Serial No.	National Board No.	Other Identification	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	CROMECORE LOCATION CII		1813	608		1974	Repaired, Replaced, Replacement	No (95)
В	" B10		1823	618		1979	Repaired, Replaced, Replacement	No (es)
C	" LZ		1802	. 597		1974	Repaired, Replaced Replacement	No (es)
D	" K3		1817	612		1994	Repaired, Replaced, Replacement	No Yes
E	n 65		1831	626		1974	Repaired, Replaced, Replacement	No (B8)
F	" C9		1803	598		1974	Repaired, Replaced, Replacement	No (es)

7.	Description of Work REPLACED CROM S CISTED.							
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt	_						
	Pressurepsig Test Temp							
	Pressurepsig Test Temp							
	Pressurepsig Test Temp°F							
9.	Remarks							
		-						
		-						
	(Applicable Manufacturer's Data Records to be attached)	-						
	·							
	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 Signed Signed Owner or Owner's Designee, Title							
	OF DETERMINED							
	CERTIFICATE OF INSERVICE INSPECTION the undersigned, holding a volid commission is well at the commission is a second to the c							
i	the undersigned, holding a valid commission issued by the National Board of Boiler and ressure Vessel Inspectors and the State or Province of							
	solution Company of Hartford Connecticity have inspected the components described to the	. 1						
	microstreport during the period 6-21-64 to 12-11-66 and state that the first state	'						
	Through and belief, the Owner has performed examinations and taken corrective and taken corrective							
	escribed in this Owner's Report in accordance with the requirements of ASME Code, Section	- 1						
_	/ signing this certificate neither the Inspector nor his employer makes any warranty, expressed							
	""Pilou, concerning the examinations and corrective measures described in the Court of	ď						
•	port. I dittieffhole, fieliner the inspector nor his employer shall be tights in any many of							
•	by personal injury of property damage or a loss of any kind arising from or connected with this							
11	spection.							
>	MB (Kapana Commission							
10	pector's Signature Commissions National Board, State, Province and Endorsements							
C	de <u>12 - 14 , 99 </u>							

ASME Section XI Mant	ASME	Section	ΧI	Manua	ı
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Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date 12-13-9
2.	Plant Address:	OCONEE NUCLEAR STATION		110712
2a.	Unit: 1	7800 ROCHESTER HWY, SENECA, S.C. 29672 3 Shared (specify Units)		
3.	Work Performed By Address:	: <u>Duke Power Company</u> , 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order # ; _	98/11/387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:	23032
4.	(a) Identification of	System: 4. (b) Class of System:		
5.	(a) Applicable Con (b) Applicable Editi	struction Code: ASME III Edition, UM . 1967, Addenda,on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda (1992 through 1	992 Addenda for Class	Code Cases MC and CC and their supports)
6.	Identification of Com	ponents Repaired or Replaced and Replacement Components		

٠.	racrimicalier of Compon	ems riepailed of Replaced	and Deplacement Com	ponents:
	Column 1	Column 2	Column 3	Column 4
1	Manage Manage			

_	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 Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	CEDM ECORE LOCATION HG		1804	599		1979	Repaired, Replaced, Replacement	No Y
C	" DIO		1883	665		1974	Repaired, Replaced, Replacement	No (Ga)
	" K9		1815	610		1944	Repaired, Replaced, Replacement	No (ES)
0	n H10		1808	603		1974	Repaired, Replaced, Replacement	No YER
E	" FIZ		1884	666		1974	Repaired, Replaced, Replacement	No (GS)
	n P6		1819	614		1974	Repaired, Replaced, Replacement	No Yes

7. Des	scription of World	k_REF	KACEL	CRDM	3 4	STED),
8. Tes	st Conducted:	Hydrostatic	Pneumatic	Nom. Operation	ng Press.	Other	Exempt
		Pressure	nsig	Test Temp	∘ ⊏		
		Pressure	psiq	Test Temp			•
		Pressure	psig	Test Temp.			
9. Ren							
	<u>.</u>	(Applicable N	Manufacturer's Da	ata Records to be atta	ached)		
Туре	e Code Symbo ficate of Author	ies of the ASM	E Code, Secti		xpiration Da	ate <u>N/A</u>	cement
		OFFICIO				.	
HSBI Owne knowl descri XI. By sig or imp Repor any pe	and I Comparer's Report during this Overling this certical concerning the concern	holding a valid spectors and the ny of Hartford (ring the period lef, the Owner I wner's Report in the lift the examinate, neither the I	commission in the State or Proceedings of the State or Procedure of the State or Procedure of the Inspector of Inspector or Inspector o	ERVICE INSPECTS Sued by the National Board, Street Street Substituting Substitution Substituting	tional Boar N. C. e compone and state the nd taken coments of AS makes any s described If be liable ing from or	and entents descripted to the corrective research warranty d in the Orin any materials.	nployed by ribed in this best of my measures e, Section , expressed wner's anner for ed with this

ASME Section XI Manu	٩S	ME	Section	ΧI	Manua	1
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Section E Exhibit A

1.	Owner Address:	Duke Power Company		1a. Date <u>12-13-99</u>
		526 S. Church Street, Charlotte NC 28201-1006		Sheet 60 of 60
2.	Plant Address:	OCONEE NUCLEAR STATION		12 of 12
	<i>(</i> 2)	7800 ROCHESTER HWY, SENECA, S.C. 29672		
2a.	Unit: 1	3 Shared (specify Units)		
3.	Work Performed By Address:	Duke Power Company 526 S, Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98171387 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A	3b. NSM or MM #:_	23032
4.	(a) Identification of	(5) 01000 01 0)0101111.		
5.	(a) Applicable Con (b) Applicable Edit	struction Code: ASME TIT Edition, Sum. 1967 Addenda,	1992 Addenda for Clas	Code Cases
6.	Identification of Con	nponents 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.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped
A	CRDM @CORE		1822	617		1974	Replacement Repaired, Replaced, Replacement	(yes or no) No
В	n 40		1821	616		1974	Repaired, Replaced, Replacement	No (es
С	n K11		1825	620		1979	Repaired, Replaced, Replacement	No (GS)
D	" G13		1832	627		1944	Repaired, Replaced, Replacement	No .
Ε	n H14		1826	621		1994	Repaired, Replaced, Replacement	No YES
F							Repaired, Replaced, Replacement	No Yes

7. Description of	Work KEPL	ACED (CRDM'S	L157	ED.	
8. Test Conduc	ted: Hydrostatic Pressure Pressure	Pneumaticpsig	Nom. Operation Test Temp Test Temp	°F	Other	Exempt
	Pressure	psig	Test Temp			
9. Remarks						
_	(Applicable I	Manufacturer's D	ata Records to be atta	ached)		
Type Code Sy Certificate of A Signed	the statements me rules of the ASM mbol Stamp N/A uthorization No. Notes of the ASM mer or Owner's Design	ade in the rep IE Code, Sect	ion XI.	d this repa	nte <u>N/A</u>	
		· · · · · · · · · · · · · · · · · · ·				•
HSBI and I Cor Owner's Repor knowledge and described in thi XI. By signing this or implied, cond Report. Furthe	ned, holding a valided Inspectors and to impany of Hartford to during the period belief, the Owner's Report of the certificate neither to the terning the examination or property day	I commission he State or Proceedings of Procedure to Connecticut In the State of Procedure to Connecticut Inspector of Procedure to Connecticut Inspector of Procedure Inspector por Ins	nave inspected the to 12-14-99; and examinations are with the requirer more his employer in the rective measures this employer shall so fany kind arising the rective measures th	tional Board J. C. e compone and state th nd taken coments of AS makes any s described If be liable ing from or	and en ints descr at to the I orrective r SME Code warranty, I in the Ov in any ma connecte	nployed by ribed in this best of my neasures e, Section , expressed wner's unner for ed with this

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

			Ao noquirou	by file i lovisions	Of THE ASIV	L Code Section	AI .		
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 282	201-1006		44.			6-22-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 89, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□ 1	d2 □3 □ Shar	ed (specify Units		_)		0 5011	1500
3.	Address 52	26 S. Church 9	e Power Company Street, Charlotte, NC 28201 p N/A Authorization No. N/A	-1006 Expiration Date N/A				r# <u>95064</u> Repair Organi M#	
4.	Identification	on of System_	RC	Class/	<u> </u>				
5.	(a) Applica	able Construct able Edition of	ion Code <u>ASME 7//</u> Section XI Utilized for Repair	19 <u>68</u> Edition <u>\$2</u> s or Replacements 198	<u>ummæ 7</u> 0 Ad 39, No Addenda	ddenda,			_Code Cases
6.	Identificatio	on of Compone	ents Repaired or Replaced ar	nd Replacement Compo	onents				
	Coi	lumn 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	ShiFTing 2A1 K	CP	Sulzer Binglam	NA	MA	n/ _Z	1986	☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes
В	Stuffing 2A1	es box	Sulzer Binglam Sulzer Binglam	かっ	n/a	n/z	1972	☐ Repaired ☐ Replaced ☑ Replacement	✓ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
Е	***************************************							☐ Repaired ☐ Replaced ☐ Replacement	□ No □ Yes

☐ Yes

☐ Repaired ☐ Replaced ☐ Replacement

No

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

7. Description of Work Removed/Reptaced Stuffing box and internals 2AI RCP

8. Test Conducted:	☐ Hydrostatic	☐ Pneumatic	X Nominal Operating Pressure	☐ Other ☐ Exempt
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
9. Remarks			т.	
	·			
	(Ap	plicable Manufact	urer's Data Records to be Attached)	
		CERTIFICATE	OF COMPLIANCE	
We certify that the of the ASME Code,	e statements made Section XI.		correct and this repair or replace	ment conforms to the rules
Type Code Symbol S	Stamp N/A			
Certificate of Authori	zation No. N/A		Expiration Date N/	'A
Signed & N	lason		Date 8-10	998
	Owner or Owner	's Designee, Title		
Inspectors and the S Hartford Connectic to <u>\$\mathbb{S}-//-\frac{2}{8}\$</u> ; and taken corrective mea Section XI. By signing this cel concerning the exam	I, holding a valid contate or Providence ut have inspected state that to the besures described in rtificate, neither the inations and correployer shall be liab	the components of the componen	by the National Board of Boiler and and employed by HS described in this Owner's Report of ge and belief, the Owner has perfort in accordance with the requires employer makes any warranty, expescribed in this Owner's Report. Further for any personal injury or property	SBI and I Company of uring the period 4-4-98 ormed examinations and ments of the ASME Code, cpressed or implied, urthermore, neither the
Inspector's Sign	nature	ommissions	National Board, State, Providence	e and Endorsements
Date <u>8. //</u> , 19	98			

1.	Owner Address	Duke Power 526 S. Chur	[.] Company ch Street, Charlotte, NC 2	8201-1006					6-25-98
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet _.	1 of 1
2a.	Unit	□ 1 🔀	12 □3 □Sh	ared (specify Units		.)	M	r# <u>980291</u>	LO - A I
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 282 p N/A Authorization No. N/	01-1006 /A Expiration Date N/A				Repair Organ	ization Job #
4.		n of System_		Class2	<u> </u>	52			, , , , , , , , , , , , , , , , , , , ,
	(b) Applica	ble Edition of	ion Code <u>B31.7</u> Section XI Utilized for Reparts Repaired or Replaced	airs or Replacements 1989	9, No Addenda	ddenda,			_Code Cases
·		umn 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 ahp.	28	Velan	Unavailable	NA	Nla	NA	☐ Repaired ☐ Replaced ☒ Replacement	No □ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

8 1/2 in. x sheet, and this form.	11 in. (2) info I (3) each she	ormation in item eet is numbered	ketches, or drawings as 1 through 6 on thing and the number of	s report is includ sheets is record	ded on each ded at the top of
	^	,			Apt 6-25-98
7. Description of Work	Replaced	Body/Bo	nnet Bolting Nominal Operating	in Valve al	HD-\$18
8. Test Conducted:	☐ Hydrostatic	☐ Pneumatic	☐ Nominal Operating	j Pressure ☐ Oth	ner 🛛 Exempt
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
9. Remarks					•
	(Δ	nnlicable Manufact	urer's Data Records to be	a Attached)	
	(<u>^</u>	pplicable manufacti	arer's Data Necords to be	3 Attached)	
We certify that the of the ASME Code, Some Type Code Symuol St	tection XI.		E OF COMPLIANCE correct and this repair Expirati		nforms to the rules
Signed Disol	m ac	Speciali.	1.	.25 , 19 <u>98</u>	
	Owner or Owne	er's Designee, Title		, 10	
Inspectors and the State Hartford Connecticute to 4-98-98; and staken corrective meas Section XI. By signing this cert concerning the examination of the state o	holding a valid of ate or Providence it have inspected state that to the be sures described in tificate, neither the nations and correlloyer shall be lia	commission issued to of	NSERVICE INSPECT by the National Board of and employer and employer makes any vescribed in this Owner's for any personal injury of	of Boiler and Pressuloyed by HSBI and It's Report during the er has performed exthe requirements of warranty, expressed a Report, Furthermore	I Company of period 4-5-58 caminations and f the ASME Code, or implied, re. neither the
M.B. Cha Inspector's Sign) puan (ature	Commissions	NC 914 National Board, State,	Providence and En	dorsements
Date <u>6 - 29</u> , 19 <u>9</u>	78_				

1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 28	3201-1006				_	6-25-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sheet ₋	of
2a.	Unit	□1 ∑	\$2 □3 □ Sha	ared (specify Units		.) 3a W	ork Ordo	071843	ип -OI
3.	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/A	01-1006 A Expiration Date N/A				Repair Organi	
4.	Identificatio	n of System	ms	Class	2				
5.	(a) Applica (b) Applica	ble Construction of	on Code <u>B3I.1</u> Section XI Utilized for Repa	19 <u>67</u> Edition, irs or Replacements 198	Ao 39, No Addenda	ddenda,			_Code Cases
6.	Identification	n of Compone	ents Repaired or Replaced a	and Replacement Compo	onents				
	Col	umn 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 ams	-155	Crane	22668-01	NIA	NA	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D				-				☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
F			,6					☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

8 1/ she	2 in. x 11 in. (2) in	n form of lists, sketc formation in items 1 neet is numbered an	through 6 on this re	eport is included	on each
7. Description	of Work Replace	ed Disc + Bo	dy/Bonnet B	olting in vo	lve 2mg-155
8. Test Conduc	_		Nominal Operating Pre		
	Pressure	psig	Test Temp	°F	,
	Pressure _	psig		°F	
	Pressure _	psig	Test Temp	°F	
9. Remarks _					
_					
_					
	(Applicable Manufacturer'	s Data Records to be At	ached)	
of the ASME (Type Code Sy	Code, Section XI.	C Specialist ner's Designee, Title	Expiration [ms to the rules
Inspectors and Hartford Con to 6-39-98 taken correction XI. By signing to concerning the Inspector nor	rsigned, holding a valid d the State or Provider necticut have inspecta-; and state that to the we measures described this certificate, neither e examinations and co	ed the components describest of my knowledge and in this Owner's Report the Inspector nor his emprective measures described in any manner for a	the National Board of B and employer ribed in this Owner's Re and belief, the Owner ha in accordance with the aployer makes any warra ibed in this Owner's Re	oiler and Pressure Noted by HSBI and I Comport during the performed examination requirements of the anty, expressed or inport. Furthermore, results in the content of the port.	mpany of iod <u>3.3/.98</u> nations and ASME Code, mplied, neither the
M.B.C	hapman	Commissions	NC914		
inspecto	or's Signature	Nat	tional Board, State, Pro	vidence and Endors	sements
Date 6 - 29	, 19 <u><i>9</i>&</u>				

1.	Owner Address	Duke Powe 526 S. Chu	er Company rch Street, Charlotte, NC 2	8201-1006				1a. Date	6-29-99
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet _.	of
2a.	Unit	□ 1	\$\dagge\square \square 3 \square \square \square \square \qquare \qquare \qquare \qquare \qquare \qqqq \qqq \qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq qqqq	ared (specify Units		.)		0	•
3.	Address 52	6 S. Church	ke Power Company Street, Charlotte, NC 2820 np N/A Authorization No. N/	01-1006 'A Expiration Date N/A				r# <u>971009</u> Repair Organ	ization Job #
4.	Identificatio	n of System_	HP	Class	2				
			tion Code <u>B31.7</u> f Section XI Utilized for Reparents Repaired or Replaced			ddenda,			_Code Cases
		umn 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)
Α	Valve 2HP-	29	Velan	Unavailable	N/A	NIA	NA	☐ Repaired ☐ Replaced ☑ Replacement	Ď No ☐ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Keplaced Body / Bonnet bolting in 2HP-29 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure psia Test Temp. Pressure psiq Test Temp. Pressure ____psig Test Temp. 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 Date 6.29 .1998 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-34-98 to 6-30-98; 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. re Commissions Negr4

National Board, State, Providence and Endorsements Inspector's Signature Date 6 30 , 1998

1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 2	8201-1006					7-1-98
2.	Plant Address	Oconee Nuc P.O. Box 143	clear Station 39, Seneca, S.C. 29679					Sheet _	1 of 1
2a.	Unit	□ 1 ½	1 2 □3 □ Sha	ared (specify Units		.)		000011	10/ 5/
3.	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r# <u>9802117</u> Repair Organi	
4.	Identification	n of System_	M\$	Class	2				
5.	(a) Applica (b) Applica	ole Constructi	on CodeB31I Section XI Utilized for Repa	19 <u>67</u> Edition,	Accepted Acc	ddenda,			_Code Cases
6.			ents Repaired or Replaced						
	Coli	ımn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of 0	Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
Α	Valve ams.	26	Crane	Unavailable	NIA	NA	NA	☐ Repaired ☐ Replaced ☑ Replacement	No ☐ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	□ No □ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Replaced Body/Bonnet nut on 2m\$-26 Hydrostatic Pneumatic Nominal Operating Pressure Other 8. Test Conducted: Pressure psia Test Temp. Pressure ____psiq Test Temp. ___ psig Pressure Test Temp. 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 Date 7 - 1 19 98 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-29-98 to 7-1-98; 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. 1/3 Chapman Commissions _____
Inspector's Signature National Board, State, Providence and Endorsements Date 7-1, 1998

F

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 526 S. Churc	Company ch Street, Charlotte, NC 20	3201-1006					7-7-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□1 ½	12 🗆 3 🗆 Sha	ared (specify Units		_) 	Vork Orde	r# <u>960289</u>	37 - AI
3.	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				Repair Organi	zation Job #
	Identificatio	n of System_	m\$	Class2					
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	on Code B31.1 Section XI Utilized for Repa	19 6 Edition, uirs or Replacements 198	A 9, No Addenda	ddenda,			_Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced	and Replacement Compo	nents				
	Col	umn 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		Crane	Unavailable	Ala	NA	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No ☐ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

☐ Repaired ☐ Replaced ☐ Replacement

No

Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Replaced Body Bonnet Bolting in 2m5-17 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 8. Test Conducted: X Exempt Pressure _____psig Test Temp. Pressure psiq Test Temp. Pressure psia Test Temp. 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 Date 7 - 7 . 1998 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-8-98 to 7-7-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NC914
National Board, State, Providence and Endorsements Date 7- 7 , 19 98

F

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 526 S. Churc	Company ch Street, Charlotte, NC 28	3201-1006					7-8-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679				•	Sheet ₋	of
?a.	Unit	□ 1 ½	12 🗆 3 🗆 Sha	ared (specify Units		.)	ork Orda	Q7AQU	349 -01
3.	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r# <u>970847</u> Repair Organi M#	
4.	Identificatio	n of System_	m\$	Class <u>2</u>					
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	on Code B3 1 . Section XI Utilized for Repa	19 Edition, 6 airs or Replacements 1989	7 Addenda	ddenda,	· · · · · · · · · · · · · · · · · · ·		_Code Cases
6.	Identification	n of Compone	ents Repaired or Replaced a	and Replacement Compon	ents				
	Col	umn 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 ams-	153	Crone	Unavailable	NA	NIA	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С							-	☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
כ								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
=								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Replaced Body/Bonnet bolting on 2MS-153 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure Test Temp. _____ psig Pressure _____ psia Test Temp. ____ psig Pressure Test Temp. 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 Date 7 - 8 . 1998 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 _____ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-31-98 to 7-8-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied. concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

 Inspector's Signature
 Commissions
 NC914

 National Board, State, Providence and Endorsements

 Date 7-8, 1998

			· · · · · · · · · · · · · · · · · · ·						
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 28	8201-1006					7-9-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□1 💢	, 2 🗆 3 🗆 Sha	ared (specify Units		.) 3a W	ork Orde	r# 980403	52 -01
	Address 52 Type Code	6 S. Church S Symbol Stam	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				Repair Organi	zation Job #
4.	Identificatio	n of System_	m s'	Class2	<u> </u>				•
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	on Code <u>B31, 1</u> Section XI Utilized for Repa	19 <u>67</u> Edition, airs or Replacements 1989	, No Addenda	ddenda,		· · · · · · · · · · · · · · · · · · ·	_Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced	and Replacement Compon	ents				
	Col	umn 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)
Α	Valve ams-	- 35	Crane	9021727-37	Ala	NA	AK	☐ Repaired ☐ Replaced ☒ Replacement	No □ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	□ No □ Yes

7. Description of Wor	k Replaced	Body/Bo	nnet bolting in	n am	IS-35	
8. Test Conducted:	☐ Hydrostatic	☐ Pneumatic	☐ Nominal Operating I			Exempt
	Pressure	psig	Test Temp.		°F	
	Pressure	psig	Test Temp.		°F	
	Pressure	psig	Test Temp.		°F	
9. Remarks						
				-		
				-	···	
	(Ap	plicable Manufacti	urer's Data Records to be	Attached)		
			OF COMPLIANCE			
We certify that the of the ASME Code, S	statements made Section XI.	in the report are	correct and this repair o	r replacer	nent conforn	ns to the rules
Type Code Symbol S	Stamp N/A					
Certificate of Authoriz	zation No. N/A	•	Expiration	n Date N/A	4	
Signed Place	the OC	Specialis	<u>Date 7 - </u>	9 19	98	
	Owner or Owner	's Designee, Title				
I Harris I .			NSERVICE INSPECT			
I, the undersigned Inspectors and the St	, holding a valid co tate or Providence	ommission issued of א	by the National Board of <u>C</u> and employ	Boiler and	d Pressure V	essel
Hartford Connecticu	ut have inspected	the components of	described in this Owner's	Report du	ring the perio	od 4-24-98
to <u>7-73-58</u> ; and s	state that to the be	est of my knowled	ge and belief, the Owner	has perfor	rmed examin	ations and
Section XI.	sures described in	i this Owner's Rep	port in accordance with the	e requiren	nents of the	ASME Code,
By signing this cer	tificate, neither the	a Inspector nor his	s employer makes any wa	ırranty, exp	oressed or in	nplied,
concerning the exami	inations and corre	ctive measures de	escribed in this Owner's F	Report. Fui	rthermore, n	either the
kind arising from or c	connected with this	in any manner in inspection.	for any personal injury or	property	damage or a	loss of any
		·				
MB Chap	man C	ommissions	NC91+			
Inspector's Sigr	nature		National Board, State, P	rovidence	and Endorse	ements
Date <u>7- /3</u> , 19	98					
	·					

1.	Owner Address	Duke Power 526 S. Churc		arlotte, NC 28	201-1006	- · · · · · · · · · · · · · · · · · · ·						7-14-98
2.	Plant Address	Oconee Nuc P.O. Box 143	lear Station 19, Seneca, S	.C. 29679							Sheet _	/_ of 2/
2a.	Unit		Í2 □3	☐ Shar	red (specify Un	its		_)			97101	
3.	Address 52	rmed By Duke 6 S. Church 5 Symbol Stam	Street, Charlo	tte, NC 2820	1-1006 Lexpiration Da	ate N/A					er # <u>97106</u> Repair Organi M #	
4.	Identification	n of System_	FDL	1	Cla	ass2						
5.	(a) Applical (b) Applical	ble Constructi ble Edition of	on Code <i>B3</i> Section XI Uti	3/./ lized for Repair	19 <u>67</u> Eers or Replacem	dition, <u>///</u> nents 1989	ARCA 69 A	ddenda, _		NO		_Code Cases
					nd Replacemer							
	Col	umn 1	Colu	mn 2	Column	1 3	Column 4	Col	Column 5		Column 7	Column 8
	Name of (Component	Name of Ma	anufacturer	Manufact Serial Nu		National Board Number		ther fication	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
Α	MA/ÌV M33/e_	#2	BHO	iv	MA		1/A	17	4	1970	☐ Repaired ☐ Replaced ☑ Replacement	☑ No ☐ Yes
	MAIN 1033 le	42									☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes
С	MA181 0033/e	FOW #5									☐ Repaired ☐ Replaced ☑ Replacement	✓ No ☐ Yes
D	MAIN DUZZIE	FDW #6									☐ Repaired ☐ Replaced ☑ Replacement	☑ No ☐ Yes
Е	MAIN.	FDW #8									☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes
F	MAJA MAJA MAJA MAJA MAJA MAJA MAJA MAJA	FDW #9	: :			_		4			☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes

7. Description of Work Replaced bulling on riser and header Flong
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 2BOTSG MFNW NO33 &S
(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 CR Hensen OA Special St Date 7-14, 19 98 Owner or Owner's Designee, Title
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of
Inspector's Signature Commissions NC 9/4 National Board, State, Providence and Endorsements Date 7-14 , 19 98

1.	Owner Address									1a. Date <u>7-/4-98</u>				
2.	Plant Address	Oconee Nuclear Station P.O. Box 1439, Seneca, S.C. 29679											2 of 7	
2a.	Unit	☐ 1 ☐ 2 ☐ 3 ☐ Shared (specify Units)												
3.	Address 52	Nork 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 # 97/66804-0/ Repair Organization Job #				
		entification of System <i>FDW</i> Class2												
5.	(a) Applicable Construction Code 331 1967 Edition MARCA 69 Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda													
6.	Identification	n of Compo	nents Rep	aired or Repla	aced a	nd Replaceme	nt Compo	nents						
	Coli	umn 1		Column 2		Column 3		Column 4	Col	Column 5		Column 7	Column 8	
		Componen	t Name	Name of Manufacturer		Manufacturer Serial Number		National Board Number		Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)	
	MAIN NO33ke	#11		B+W		NA		MA	4	MA		☐ Repaired ☐ Replaced ☐ Replacement	⊠ No ☐ Yes	
	MAIR Nazzle	#12										☐ Repaired ☐ Replaced ☐ Replacement	☑ No ☐ Yes	
С	MAIN .	FDW # 14					.,,,,,					☐ Repaired ☐ Replaced ☐ Replacement	No ☐ Yes	
2	MAIN I nozzle	FDW #15										☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes	
=	MAIN I Nozzle	FOW #17										☐ Repaired ☐ Replaced ☑ Replacement	☑ No ☐ Yes	
=	MAIN , 1033 le	FOW		k			,		l	/	1	☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes	

Date 7-14, 19 98

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 Reptaced bolling on riser and header Flanges ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure Test Temp. _____ psig Pressure _____ psiq Test Temp. _____ psig Test Temp. Pressure 9. Remarks 2B OTSC MFDW (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 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 _____ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-22-98 to 7-14-98; 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. 1/3. Chanman Commissions Commissions National Board, State, Providence and Endorsements

1.	Owner Address	Duke Power 526 S. Chur	r Company ch Street, Charl	lotte, NC 28	3201-1006				1a. Date	7-14-98
2.	Plant Address		clear Station 39, Seneca, S.C		Sheet	3 of 20				
2a.	Unit	□1 	d2 □3	☐ Sha	ared (specify Units		.)	ork Ordor	# 9710L	caual
3.	Address 52	rmed By Duk 6 S. Church Symbol Stam		# <u>97/06</u> Repair Organ						
4.	Identificatio	n of System_	FDU		Class2	•				
5.	(a) Application (b) Application	ble Construct ble Edition of	ion Code	<mark>3 / / ed for Repa</mark>	19 <u>6</u> ZEdition <u>////</u> iirs or Replacements 1989	9 <i>RCL 6</i> 9 Ao 9, No Addenda	ddenda,	NO		Code Cases
6.	Identification of Components Repaired or Replaced and Replacement Components									
	Col	umn 1	Column	n 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	1				* * * * * * * * * * * * * * * * * * * *	 		1		

	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	MAIN FDW Duzzle # 20	B+W	MA	MA	1/1	1970	☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes
В	MAIN FDW no33/e 21			·			☐ Repaired ☐ Replaced ☐ Replacement	No Yes
С	MAIN FOW 1033k # 23						☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes
1	MAIN FOW 1033/e # 24						☐ Repaired ☐ Replaced ☐ Replacement	✓ No □ Yes
E	ma Enla						☐ Repaired ☐ Replaced ☑ Replacement	☑ No ☐ Yes
F	MAIN FOW Mark # 27		,	+		1	☐ Repaired ☐ Replaced ☐ Replacement	✓ No ☐ Yes

is sł	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	on of Worl	Replac	ed but	ling	On	risc	<u> </u>	dno) }	edd	er	Flan	zes_
8. Test Cond		Hydrosta		eumatic									
		Pressure		psig		Tes	st Ten	np			_°F		
		Pressure		psig		Tes	st Ten	np			_°F		
		Pressure		psig		Tes	st Ten	np			_°F		
9. Remarks	2B	0756	- m	FOL	ν	no	33 V	ks.					
	· · · · · · · · · · · · · · · · · · ·						- ·			_			·
			(Applicable I	Manufactı	urer's Da	ata Rec	ords t	o be At	tached	d)			
Type Code Certificate of	E Code, S Symbol S of Authoriz		nade in the re		correct	and thi	s rep a		Date N	N/A		forms to	the rules
								_					•
Inspectors a Hartford Co to	and the Stonnecticuss; and stotive measong this certitle examing this emptor his empton the examination of t	holding a variate or Provident have inspectate that to the sures describitificate, neither nations and coloyer shall be connected with	ence of cted the comp ne best of my ed in this Ow er the Inspect corrective me e liable in any	pon issued N. C ponents of knowled oner's Replacer nor his asures do manner	described and port in a semployeescribed	Nationa d in thi belief, the coorda yer mal	al Boa and end is Own the O ince where are kes are	ard of B mploye ner's R wner ha vith the ny warr er's Re	oiler a d by I eport as per require anty,	during during former remer expre	and I g the ped example of the second of the	Compan period _ * mination the ASME or implied e, neither	y of -22.58 s and Code, i,
MB	Chan	uan_	Commission	ons	NC 914	,							
Inspec	ctor's Sigr	ature	00	J. 10	Nationa	al Boar	d, Sta	ite, Pro	viden	ce an	d End	orsemen	ts
Date <u>7- /</u>	<u>4</u> , 19_	98_											

			As riequired	Dy The Hovisions	Of THE AGIV	in Code Section	Λi					
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 2	8201-1006					7-14-98 4 of 4			
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 39, Seneca, S.C. 29679					Sheet _	7 of 4			
a.	Unit	□1	12 □3 □ Sha	ared (specify Units		.) 3a. W	ork Orde	r# 9710681	04-01			
3.	Address 52	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 # 57/06804-0/ Repair Organization Job # 3b. NSM or MM #										
4.	Identification of SystemClass											
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	on Code	19 <u>6</u> Edition, /// airs or Replacements 1989	<i>9RCL 6</i> 9 Ac , No Addenda	ddenda,	NO		_Code Cases			
3.	Identificatio	n of Compone	ents Repaired or Replaced	and Replacement Compon	ents							
	Col	lumn 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)			
4	MAIN.	FDW # 2.9	BXW	MA	7/7	n/a	1970	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes			
	1000			174001	 		1.10	z riopiacoment				

	Name of Component	Name of Manufacturer	Manufacturer Serial Number	Board Number	Other Identification	Year Built	Replaced, or Replacement	Stamped (yes or no)
A	mark #29	BXW	MA	7/2	n/a	1970	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
В	MAIN FOW 1033/e #30	Btw	NA	n/z	n/2	1970	☐ Repaired	☑ No □ Yes
С		BIW	NA	n	nd	150	☐ Repaired ☐ Replaced ☑ Replacement	☑ No □ Yes
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

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

7. Description of Work Replaced bulling on Riser and Leader Flangers

8. Test Conduct	ted: Hydrostatio	Pneumatic	☐ Nominal Operating	Pressure	Exempt
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
	Pressure	psig	Test Temp.	°F	
9. Remarks 🚅	2B 0756	MFDW	n033ks		
 	//				
	(А		rer's Data Records to be OF COMPLIANCE	Attached)	
We certify the of the ASME C	nat the statements mad ode, Section XI.		correct and this repair of	r replacement confor	ms to the rules
Type Code Syr	mbol Stamp N/A				
Certificate of A	uthorization No. N/A		Expiration	n Date N/A	
Signed Z R	Sunsen Owner or Owner	4 Specialis er's Designee, Title	Date <u>7-</u>	<u>/4</u> , 19 <u>9</u> 8	
I. the unders			ISERVICE INSPECT by the National Board of		Voccol
Inspectors and	the State or Providence	e of N.C.	and emplo	yed by HSBI and I Co	ompany of
Hartford Conn	lecticut have inspecte	d the components de	escribed in this Owner's	Report during the pe	riod 4-22.98
taken corrective Section XI.	e measures described	in this Owner's Rep	ge and belief, the Owner ort in accordance with the	has performed exam ne requirements of the	inations and a ASME Code,
By signing th	nis certificate, neither th	ne Inspector nor his	employer makes any wa	arranty, expressed or	implied,
Inspector nor h	examinations and corr	ective measures de	scribed in this Owner's I for any personal injury o	Report. Furthermore,	neither the
kind arising from	m or connected with th	is inspection.	or any personal injury of	property damage or	a loss of any
In a M	D.,				
Inspector	's Signature		<i>入と9・・</i> National Board, State, P	rovidence and Endor	sements
Date 7-14	_, 19 <u>.78/</u>				

1.	Owner Address	Duke Pow 526 S. Chi			NC 28201-1006						7-15-98
2.	Plant Address	Oconee N P.O. Box 1		ation eca, S.C. 296	79					Sheet _	of
2a.	Unit	□ 1	\mathbb{Z}_2	□ 3	Shared (specify U	Inits		_)		GSA2E	15/12
3.	Address 52	6 S. Churc	n Street,	er Company Charlotte, NC Authorization I	28201-1006 No. N/A Expiration [Date N/A		3a. Work Order # 98025686-62 Repair Organization Job #			
4.	Identification of SystemFDWClass2										
								ddenda, <u>NÖ</u>			_Code Cases
0.	1	umn 1	nents He	Column 2	aced and Replaceme	· · · · · · · · · · · · · · · · · · ·	Column 4	Column 5	Col. 6	Column 7	Column 8
		Componen		e of Manufact	urer Manufa Serial N	cturer umber	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
Α	MAIN , Nozzle	FDW #4		31W	NA		1/4	FDW NZ AUY	1970	☐ Repaired ☐ Replaced ☐ Replacement	No Yes
В		e nik a								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С										☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D										☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
E										☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F										☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

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

7. Description of Wor	rk Reptaced	Flange	balling MAIN F	OW nogsk#4 A OT
8. Test Conducted:	Hydrostatic	☐ Pneumatic	☐ Nominal Operating Pressu	
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp.	°F
	Pressure	psig	Test Temp	°F
9. Remarks				
	(App	licable Manufactı	rer's Data Records to be Attach	ord)
			inci s bata necords to be Attach	e u)
We certify that the of the ASME Code,	e statements made		OF COMPLIANCE correct and this repair or repla	cement conforms to the rules
Type Code Symbol S	Stamp N/A			
Certificate of Authori	zation No. N/A		Expiration Date	N/A
Signed /	Owner or Owner's	Specialis s Designee, Title	51 Date 7-15	, 19 <u>98</u>
Inspectors and the S Hartford Connectic to 7-15-98 ; and taken corrective mea Section XI. By signing this ce concerning the exam	I, holding a valid collistate or Providence of the task of the best asures described in trificate, neither the pinations and correct ployer shall be liable.	mmission issued of	NSERVICE INSPECTION by the National Board of Boiler and employed by described in this Owner's Report ge and belief, the Owner has proport in accordance with the requirements semployer makes any warranty described in this Owner's Report for any personal injury or proper	this during the period #-25-98 erformed examinations and airements of the ASME Code, expressed or implied, Furthermore, neither the
Inspector's Sig	Co nature	mmissions	NC914 National Board, State, Provide	nce and Endorsements

1.	Owner Address	Duke Power 526 S. Chur	[·] Company ch Street, Charlotte, NC 28	201-1006					<u>7-15-98</u>
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□1 Z	12 □3 □ Sha	red (specify Units		_)	- ul - Oud -	9GM2E/	CU A2
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/A	1-1006 Expiration Date N/A				r # <u>980256</u> Repair Organi M #	
4.	Identificatio	n of System_	FDW	Class <u>2</u>					
			ion Code <u>/3.3/-/</u> Section XI Utilized for Repai			Addenda,a			_Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced a	nd Replacement Compo	nents				
	Coi	umn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
		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	MAIN nozzle:	FOW #2	B+W	n/a	n/a	FDW NZ A062	1970	☐ Repaired ☐ Replaced ☑ Replacement	No Ses
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С		······································				·		☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F				-				☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

Date 7 · 15 , 1998

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 Flange bolting 2A OTSG MAIN FDW nozzle #2 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure _ _ psig Test Temp. Pressure Test Temp. psiq ____ psig Pressure Test Temp. 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 Son UA Specialist Date 7-15, 19 98 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 4-25-98 to 7-15-98; 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. aman Commissions NC 914 National Board, State, Providence and Endorsements

	***************************************						/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
1.	Owner Address	Duke Power 526 S. Chur	Company ch Street, Charlotte, NC 20	B201-1006				1a. Date	7-21-98	
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet _.	of	
	Unit			ared (specify Units		39.14	lork Orda	r# <u>97081</u> 8	\$9 - A1	
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/.	01-1006 A Expiration Date N/A				Repair Organi	ization Job #	
4.	Identification	n 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 Compone	ents Repaired or Replaced a	and Replacement Compo	onents					
	Col	umn 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)	
Α	Valve 2HP-2	₹5	m.w. Powell	36-24438	N/A	NIA	N/A	☐ Repaired ☐ Replaced ☒ Replacement	⊠ No □ Yes	
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	

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

7. Description of Work Replaced Body/Bonnet bolting in value 2HP-25

8. Test Conducted:	☐ Hydrostatic	\square 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						
	e statements made		correct and this repair or replace	ment conforms to the rules					
of the ASME Code,	Section XI.								
Type Code Symbol S	Stamp N/A								
Certificate of Authori	ization No. N/A		Expiration Date N/	A					
Signed Plas	m QC Spa	ecialist	Date 7-21 , 1	998					
	Owner or Owner	's Designee, Title		V					
	CERT	TIFICATE OF I	NSERVICE INSPECTION						
I, the undersigned	d, holding a valid co	ommission issued	by the National Board of Boiler an and employed by HS	d Pressure Vessel					
Hartford Connectic	ut have inspected	the components of	described in this Owner's Report du	uring the period ⊬-/-98∕					
to <u>7-21-98</u> ; and	state that to the be	est of my knowled	ge and belief, the Owner has perfo	rmed examinations and					
taken corrective mea	asures described in	this Owner's Rep	port in accordance with the require	ments of the ASME Code,					
	rtificate, neither the	e Inspector nor his	s employer makes any warranty, ex	pressed or implied					
concerning the exam	ninations and corre	ctive measures de	escribed in this Owner's Report. Fu	irthermore, neither the					
Inspector nor his em	spector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any not arising from or connected with this inspection.								
Kind ansing from or o	connected with this	inspection.							
han DD									
7/1/3 Chap		ommissions	NC914						
. Inspector's ∕Sig	nature		National Board, State, Providence	and Endorsements					
Date 7-21 , 19	9 <u>8</u>								
L									

F

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 526 S. Churc	Company ch Street, Charlotte, NC 28	8201-1006				_	3-13-98	
	Plant Address	Oconee Nuc P.O. Box 143	clear Station 39, Seneca, S.C. 29679					Sheet _	of	
2a.	Unit	□1 🔀	1 2 □ 3 □ Sha	ared (specify Units		.) 3a W	lark Orda	970662	71-06	
	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				er# <u>970662</u> Repair Organi M#		
4.	Identificatio	n of System	<u>Rc</u>	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	n of Compone	ents Repaired or Replaced a	and Replacement Comp	onents					
	Col	umn 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)	
Α	Valve 2RC-	68	Dresser	BL -08895	NIA	NIA	NA	☐ Repaired ➢ Replaced ☐ Replacement	⊠ No □ Yes	
В	Valve arc-	28	Dresser	BT04976	N/A	N/A	1975	☐ Repaired ☐ Replaced ☒ Replacement	⊠ No □ Yes	
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
D								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
E								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
F								☐ Repaired ☐ Replaced ☐ Replacement	□ No □ Yes	

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

7. Description of Wor	k Keplaced valve a	XKC-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 Manufa	cturer's Data Records to be Attached)						
We certify that the of the ASME Code, \$	statements made in the report a	TE OF COMPLIANCE re correct and this repair or replacer	ment conforms to the rules					
Type Code Symbol S	Stamp N/A							
Certificate of Authori	zation No. N/A	Expiration Date N/	4					
Signed Signed	Owner or Owner's Designee, Ti	Date <u> </u>	98					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of								
Inspector's Sign	nature	National Board, State, Providence	and Endorsements					
Date <u>8- /7</u> , 19	98							

F

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

	·					:= -			
1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 28	3201-1006					8-13-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sheet ₋	<u>l</u> of <u>l</u>
	Unit			ared (specify Units		_) _3a. '	Work Orde	r# 97066	272 - 04
3.	Address 52	6 S. Church S	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r# <u>97066</u> Repair Organi M#	
4.	Identificatio	n of System_	RC	Class	<u> </u>				
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	on Code <u>B31.7</u> Section XI Utilized for Repa	19 <u>69</u> Edition, irs or Replacements 198	A 89, No Addenda	ddenda,			_Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced a	and Replacement Compo	onents				
	Col	umn 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)
Α	Valve arc-	67	Dresser	BL-08891	NA	NIA	NA	☐ Repaired ☑ Replaced ☐ Replacement	⊠ No □ Yes
В	Value arc-1	ה <u>י</u>	Dresser	BL - 8894	N/A	NA	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D	·							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work Replaced Valve aRC-67

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				
				
-			· · · · · · · · · · · · · · · · · · ·	
				
	(Ap	plicable Manufacto	urer's Data Records to be Attached)
			OF COMPLIANCE	
We certify that the of the ASME Code,	e statements made Section XI.	in the report are	correct and this repair or replace	ement conforms to the rules
Type Code Symbol S	Stamp N/A			
Certificate of Authori	zation No. N/A		Expiration Date N	/A
Signed S N	lason		Date <u>\$~13</u> ,	19 9 8
	Owner or Owner	's Designee, Title	,	· •
			NSERVICE INSPECTION	
I, the undersigned	l, holding a valid co	of state of the st	by the National Board of Boiler a and employed by H	nd Pressure Vessel
Hartford Connectic	ut have inspected t	the components o	and employed by H described in this Owner's Report o	SBI and I Company of
to <u>\$-17-98</u> ; and	state that to the be	est of my knowled	ge and belief, the Owner has perf	ormed examinations and
taken corrective mea Section XI.	sures described in	this Owner's Rep	port in accordance with the require	ements of the ASME Code,
By signing this cer	rtificate, neither the	Inspector nor his	s employer makes any warranty, e	xpressed or implied.
concerning the exam	inations and corre	ctive measures de	escribed in this Owner's Report. F	urthermore, neither the
Inspector nor his emplified arising from or continuous	ployer shall be liab connected with this	le in any manner	for any personal injury or property	damage or a loss of any
	omiootod war uno	mopeonor.		
MBOLL		ommissions	NC914	
Inspector's Sign	nature	ATIITROOIURO	National Board, State, Providence	e and Endorsements
Date <u>8-77</u> , 19	28			

1.	Owner Address	Duke Power 526 S. Chur	[,] Company ch Street, Charlotte, NC 28	201-1006					8.13.98	
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet ₋	1 of <u>1</u>	
2a.	Unit	□ 1 ∑	∮2 □3 □ Sha	red (specify Units		.)		97061	919 - 61	
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/A	1-1006 A Expiration Date N/A				r # <u>97066</u> Repair Organi M #		
4.	Identificatio	Identification of SystemHPClass								
5.	(a) Applicable Construction Code B31.7 1967 Edition, Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda									
6.	Identificatio	dentification of Components Repaired or Replaced and Replacement Components								
	Col	umn 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 2HP-	31	Fisher	Unavailable	Ala	NA	N/A	☐ Repaired ☐ Replaced ※ Replacement	⊠ No □ Yes	
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
С						:		☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
D								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
E								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	

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

7. Description of Work Replaced disc in valve	2HP-31
	minal Operating Pressure
Pressurepsig	Test Temp°F
Pressurepsig	Test Temp. °F
Pressure psig	Test Temp. °F
9. Remarks	
(Applicable Manufacturer's Da	ta Records to be Attached)
CERTIFICATE OF CO	OMPLIANCE
We certify that the statements made in the report are correct a of the ASME Code, Section XI.	and this repair or replacement conforms to the rules
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	Expiration Date N/A
signed Atoon OC Specialist	· _
Owner or Owner's Designee, Title	Date <u>8 - 13</u> , 19 <u>98</u>
CERTIFICATE OF INSERV	
I, the undersigned, holding a valid commission issued by the N	National Board of Boiler and Pressure Vessel
Inspectors and the State or Providence of	and employed by HSBI and I Company of
to 8-17-98 ; and state that to the best of my knowledge and t	pelief, the Owner has performed examinations and
taken corrective measures described in this Owner's Report in ac	ecordance with the requirements of the ASME Code,
Section XI. By signing this certificate, neither the Inspector nor his employ	ver makes any warranty avaraged ar 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 p	personal injury or property damage or a loss of any
kind arising from or connected with this inspection.	
1-200	
Inspector's Signature Commissions Nationa	
	ll Board, State, Providence and Endorsements
Date 8-17, 1958	

F

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 526 S. Churc	Company ch Street, Charlotte, NC 28	3201-1006					8-25-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 39, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□ 1		ared (specify Units		.) .)	ork Orda	r# 970421	65-01
3.	Address 52	6 S. Church 9	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r# <u>970431</u> Repair Organi	
		n of System_		Class					
5.	(a) Applica (b) Applica	ble Constructi ble Edition of	ion CodeB31. 7 Section XI Utilized for Repa	19 <u>69</u> Edition, irs or Replacements 1989	Ao 9, No Addenda	ddenda,			_Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced a	and Replacement Compor	nents				
	Col	umn 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 2LP-	í	Aloyco/Wolworth	C-46391	NIA	Ala	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
F		ı				·		☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work <u>Replaced Bonnet on value 2LP-1</u> ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure ____psiq Test Temp. Pressure _____psig Test Temp. Pressure _____ psig Test Temp. 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 Date 8-26 19 95 Signed 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 _______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-2-58 to 8.26-98; 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. assuran Commissions NC914 Inspector's Signature National Board, State, Providence and Endorsements Date 8-26, 1998

1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 28	3201-1006				_	8-25-98
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 19, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□1 Þ	1 2 □3 □ Sha	ared (specify Units		_))	lark Orda	r# 982310	3 No - 01
3.	Address 52	6 S. Church 9	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r# <u>98031</u> Repair Organi M#	
4.	Identificatio	n of System	LP	Class	1				
5.	(a) Applicable Construction Code <u>B31.7</u> 19 <u>69</u> Edition, — Addenda, Code Cases (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda								
6.	Identificatio	n of Compone	ents Repaired or Replaced a	and Replacement Compo	nents				
	`, Col	umn 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	2	Walworth	C-44936	NIA	NA	N/A	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С	•							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
D								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
Ε								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

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

7. Description of Work Replaced disc in valve 2LP-2

8. Test Conducted:	☐ Hydrostatic	☐ Pneumatic	☐ Nominal Operating Pressure	Other	X 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)											
			OF COMPLIANCE									
We certify that the of the ASME Code, S	e statements made Section XI.	e in the report are	correct and this repair or replacer	nent conforr	ns to the rules							
Type Code Symbol S	Stamp N/A											
Certificate of Authori	zation No. N/A	_	Expiration Date N/	4								
Signed Plast	Owner or Owner	rs Designee, Title	Date <u>8-25</u> , 19	9 <u>98</u>								
			NSERVICE INSPECTION									
I, the undersigned Inspectors and the S	, holding a valid c tate or Providence	ommission issued a of いんん	by the National Board of Boiler and by the National Board of Boiler and employed by HS	d Pressure V	essel							
Hartford Connectic	ut have inspected	the components	described in this Owner's Report du	iring the peri	od 4-2-98							
to <u>8-26-98</u> ; and	state that to the b	est of my knowled	lge and belief, the Owner has perfo port in accordance with the requirer	rmed examir	nations and							
Section XI.												
By signing this cer	rtificate, neither th	e Inspector nor hi	s employer makes any warranty, ex escribed in this Owner's Report. Fu	pressed or in	mplied,							
Inspector nor his em	ployer shall be lial	ole in any manner	for any personal injury or property	damage or a	eitner the Lloss of anv							
kind arising from or o	connected with this	s inspection.		Ü								
· has 10												
Inspector's Sign		commissions										
Date <u>8-26</u> , 19			National Board, State, Providence	and Endors	ements							

1.	Owner Address	Duke Powe 526 S. Chur	r Company ch Street, Charlotte, NC 2	8201-1006					9-2-98	
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet _	of	
2a.	Unit	□ 1 D	【2 □3 □ Sh	ared (specify Units				0=.000		
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r # <u>9708198</u> Repair Organi M #	zation Job #	
4.	Identification	n of System_	LWD	Class	2					
	(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 Identification of Components Repaired or Replaced and Replacement Components									
		umn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8	
	Name of 0	Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)	
Α	Volve	-1	ITT Engineered Valves ITT Grinell	Unavailable	NA	UTC#990368	N/A	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No □ Yes	
В								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
С								☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
D	·							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes	
E	-	-						☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	
F	· · · · · · · · · · · · · · · · · · ·							☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Replaced Valve Bonnet on 2LWD-1 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 8. Test Conducted: ☐ Exempt Pressure Test Temp. psia Pressure psia Test Temp. Pressure psig Test Temp. 9. Remarks Tested IAW ASME Gode Case NSZZ (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 Symuol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Date_2-2 1999 Signed 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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-9-98 to 2-2-99; 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. Commissions NC914 Inspector's Signature National Board, State, Providence and Endorsements Date 2 - 2 , 19 99

1.	Owner Address	Duke Power 526 S. Churc	Company ch Street, Charlotte, NC 2	8201-1006					
2.	Plant Address	Oconee Nuc P.O. Box 143	elear Station 39, Seneca, S.C. 29679					Sheet _	of
2a.	Unit	□ 1		ared (specify Units		.)		0.5	
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 A Expiration Date N/A				r# <u>9804377</u> Repair Organi M#	zation Job #
4.	Identificatio	Identification of SystemHP Class 2							
	(b) Applica	DIE EUILION OF	ion Code 1331.7 Section XI Utilized for Repa	airs or Replacements 198	39, No Addenda	ddenda,			_Code Cases
0.		umn 1	ents Repaired or Replaced				T		
	Cor	umn 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 2HP-	ວັ	Anchor Darling	Unavailable	NA	NA	N/A	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No ☐ Yes
В								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes

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

7. Description of Work Replaced ball in value 24P-5

8. Test Conducted:	Hydrostatic	☐ Pneumatic	☐ Nominal Operating Pressure	☐ Other X Exempt								
	Pressure	psig	Test Temp.	°F								
	Pressure	psig	Test Temp.	° F								
	Pressure	psig	Test Temp.	°F								
9. Remarks												
			PANELS TO THE STATE OF THE STAT									
	(Applicable Manufacturer's Data Records to be Attached)											
			OF COMPLIANCE									
We certify that the of the ASME Code, S	statements made Section XI.	in the report are	correct and this repair or replacen	nent conforms to the rules								
Type Code Symbol S	tamp N/A											
Certificate of Authoriz	zation No. N/A		Expiration Date N/A	1								
Signed 9406	OWNer or Owner	<u>Secualist</u> 's Designee, Title	Date <u> - 9</u> , 19	99								
	17.											
			NSERVICE INSPECTION									
I, the undersigned,	, holding a valid co tate or Providence	of storm	by the National Board of Boiler and and employed by HSI	Pressure Vessel								
Hartford Connecticu	It have inspected t	the components of	described in this Owner's Report du	ring the period 5-6-98								
to <u>۱-99</u> ; and s	state that to the be	est of my knowled	ge and belief, the Owner has perfor	med examinations and								
Section XI.	sures described in	this Owner's Rep	port in accordance with the requiren	nents of the ASME Code,								
By signing this cer	tificate, neither the	Inspector nor his	s employer makes any warranty, exp	ressed or implied,								
concerning the exami	inations and correct	ctive measures de	escribed in this Owner's Report. Fur	thermore, neither the								
kind arising from or o	onnected with this	in any manner inspection.	for any personal injury or property o	lamage or a loss of any								
, , , , ,		-										
MB Chap	nan_ Co	ommissions	NC914									
Inspector's Sign	nature		National Board, State, Providence	and Endorsements								
Date /- a/ , 19	99											

1.	Owner Address	Duke Power 526 S. Chur	[•] Company ch Street, Charlotte, NC 2	8201-1006					1-27-99
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet :	of
2a.	Unit	□ 1 ½	1 2 □3 □ Sh	ared (specify Units		_)		0900109	<i>E</i>
3.	Address 52	6 S. Church	e Power Company Street, Charlotte, NC 2820 p N/A Authorization No. N/	01-1006 'A Expiration Date N/A				r# <u>9800198</u> Repair Organ	ization Job #
4.	Identificatio	n of System_	НР	Class	2				
	(a) Applica	ble Construct	ion Code <u>B31.7</u> Section XI Utilized for Repa	19 69 Edition, airs or Replacements 198	A 39, No Addenda	ddenda,	**************************************		Code Cases
6.	Identificatio	n of Compone	ents Repaired or Replaced	and Replacement Compo	onents				
	Col	umn 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 2HP-	9	Aloyco Walworth	Unavailable	N/A	N/A	NA	☐ Repaired ☐ Replaced ☑ Replacement	⊠ No ☐ Yes
В	1,7,7							☐ Repaired☐ Replaced☐ Replacement	☐ No ☐ Yes
С								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
D								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
E								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes
F			;					Repaired Replaced	☐ No ☐ Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 7. Description of Work Replaced Body / Bonnet bolting in 2HP-19 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 8. Test Conducted: Pressure psia Test Temp. ____psig Pressure Test Temp. Pressure psia Test Temp. 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 Date 1-27 .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 ______ and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-8-98 to 1-27-99; 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. Commissions_____NC914 Inspector's Signature National Board, State, Providence and Endorsements Date /- 27 , 19**99**

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

_				, 1 101/10/10/10 (of THE AGIV	in Oode Section	AI .			
1.	Owner Address	Duke Power 526 S. Chur	r Company ch Street, Charlotte, NC 2	8201-1006				1a. Date <u>.</u>	5-3-99	
2.	Plant Address		clear Station 39, Seneca, S.C. 29679					Sheet _	1_ of	
2a.	Unit	□ 1		ared (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 # 98120416~01 Repair Organization Job #										
4.	Identificatio	n of System_	SF	Class				-		
5.	(a) Applica (b) Applica	ble Construct ble Edition of	ion Code <u>B31.7</u> Section XI Utilized for Repa	19 <u>69</u> Edition, airs or Replacements 1989,	A	ddenda,			_Code Cases	
6.	. Identification of Components Repaired or Replaced and Replacement Components									
	Col	umn 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 asf.	60	Crane	50 2141-01	NIA	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	
Ε								☐ Repaired ☐ Replaced ☐ Replacement	☐ No ☐ Yes	

☐ No☐ Yes

☐ Repaired ☐ Replaced ☐ Replacement

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 Body/Bonnet Studs + Nuts on value 25F-60 ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt 8. Test Conducted: Pressure ____ psig Test Temp. Pressure ____psig Test Temp. _____ psig Pressure Test Temp. 9. Remarks _

(Applicable Manufacturer's Da	ta 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 Plansh QC Specialist Owner or Owner's Designee, Title	Date <u>5 - 3</u> , 19 <u>99</u>					
Owner or Owner's Designee, Title						

Signed Place OC Specialist Date 5-3, 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 and employed by HSBI and I Company of
Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-8-99
to <u>5-3-99</u> ; 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.
In a DD
TV1.13. Chapman Commissions NC914
Inspector's Signature National Board, State, Providence and Endorsements
Date <u>5-3</u> , 1999_

ASME	Section	ΝI	Manual
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Section E Exhibit A

1.	Owner Address:	Duke Power Company			1a. Date 11 19 99
		526 S. Church Street, Charlotte NC 28201-1006			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 Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #:	98049445 - 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: <u>BS</u>	4. (b) Class of System: _	2	
5.	(a) Applicable Con(b) Applicable Editi	struction Code: <u>B31.7</u> 1967 Edition, on of Section XI Utilized for Repairs or Replacements: <u>1989</u>	Addenda,	1992 Addenda for Clas	Code Cases ss MC and CC and their supports)
6.	Identification of Con	ponents Repaired or Replaced and Replacement Compone	nts:	•	

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mig.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
A	Value 2BS-13	Crane	6021447-04	Unavailable	N/A	NA	Repaired, Replaced. Replacement	No Yes
В							Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced,	No
D							Replacement Repaired, Replaced,	Yes No
Ε							Replacement Repaired, Replaced, Replacement	Yes No Yes
F					***************************************		Repaired, Replaced, Replacement	No Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in 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 nuts 2BS-13
8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig 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 Signed Owner or Owner's Designee, Title Expiration Date 11 - 19, 1999
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

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Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date 11 30 99 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 Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98078749 - 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.		struction Code: <u>B31.1 1967</u> Edition, Addenda, ion of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> (1992 through	1992 Addenda for Cla	Code Cases
6.	Identification of Con	nponents 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.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve alpsw-12	Crone	Unavailable	N/A	N/A	NA	Repaired, Replaced, Replacement	No Yes
В							Repaired, Replaced, Replacement	No Yes
С							Replaced, Replaced, Replaced	No Yes
D							Replaced, Replaced, Replacement	No Yes
Ε					***************************************		Repaired, Replaced, Replacement	No Yes
ŀ							Repaired, Replaced, Replacement	No Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in 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.

	Description of Work Replaced Body/Bonnet bolting in alps W-12
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
	Pressurepsig Test Temp°F
	Pressurepsig Test Temp°F
	Pressurepsig Test Temp°F
9.	Remarks
	(Applicable Manufacturate Date Date III
	(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
	2.1
	Signed Mood OC Specialist Date 11-30, 1999
	Owner or Owner's Designee, Title
÷	
	CERTIFICATE OF INSERVICE INSPECTION
	CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
1	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
	Pressure Vessel Inspectors and the State or Province of
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of

ASME Section XI Ma	nual
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Section E Exhibit A

1.	Owner Address:	Duke Power Company			1a. Date 12/2/99
		526 S. Church Street, Charlotte NC 28201-1006			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 Address:	7: Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order #:	9807875a - 0 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM or MM #: _	-
4.	(a) Identification o	System: <u>LPSW</u>	4. (b) Class of System: _	2	
5.	(a) Applicable Cor(b) Applicable Edit	struction Code: <u>B31.1 1967</u> Edition, ion of Section XI Utilized for Repairs or Replacements: <u>1989</u>	Addenda, No Addenda (1992 through 1	992 Addenda for Clas	Code Cases ss MC and CC and their supports)
6.	Identification of Cor	nponents Repaired or Replaced and Replacement Componer	nts:		

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
A	Valve alpsw-8	Crane	Unavailable	N/A	N/A	NA	Repaired, Replaced, Replacement	(yes or no) No Yes
В					-		Repaired, Replaced, Replacement	No Yes
С							Repaired, Replaced, Replacement	No
D							Repaired, Replaced,	Yes No
Ε							Replacement Repaired, Replaced,	Yes No
F							Replacement Repaired, Replaced, Replacement	Yes No Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in 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 in valve 2LPSW-						
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt						
	Pressurepsig Test Temp°F						
	Pressurepsig Test Temp°F						
	Pressurepsig Test TempoF						
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						
	o Di						
	Signed Hto Ox Specialist Date 12-2, 1999 Owner or Owner's Designee, Title						
4							
	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//-/-99 to _/2-2-99 ; and state that to the best of my						
	who wedge and belief, the Owner has performed examinations and taken corrective measures.						
	described in this Owner's Heport in accordance with the requirements of ASME Code, Section 1						
	Ai.						
	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.						
(man.						
1	Inspector's Signature Commissions National Roard State Province Na						
_	National Board, State, Province and Endorsements						
	1210 /7/ 7/ 44						

ASME Section XI N	/lanual
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Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		1a. Date 12 3 99 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 Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006	3a. Work Order #:	98078750 - 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: _		
5.	(a) Applicable Con(b) Applicable Editi	struction Code: <u>B31.1 1967</u> Edition, Addenda, on of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> (1992 through 1	992 Addenda for Clas	Code Cases s MC and CC and their supports)
6.		ponents 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)
Α	Valve			,		,	Repaired,	(No)
	2LPSW-10	Crane	Unavailable	NA	N/A	N/A	Replaced, Replacement	Yes
В							Repaired, Replaced,	No
С							Replacement	Yes
				•			Repaired, Replaced,	No
D				· ·			Replacement	Yes
_							Repaired, Replaced,	No
E							Replacement	Yes
L.							Repaired, Replaced,	No
F							Replacement	Yes
۲							Repaired, Replaced,	No
		1					Replacement	Yes

Date 12-3 99

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 in aUSW-10
8.	Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Exempt
	Pressurepsig Test Temp°F
	Pressurepsig Test Temp°F
	Pressurepsig Test Temp°F
9.	Remarks
	(Applicable Magnifestured Date Decords to be attacked)
	(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 Signed Owner or Owner's Designee, Title CERTIFICATE OF COMPLIANCE Expiration or replacement conforms to the rules of the ASME Code, Section XI. Expiration Date N/A Date 12 - 3 , 1999
,	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 _/I-9-99 to _/2-3-99; 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. Maineral Board State Report
	Mational Board, State, Province and Endorsements

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

Section E Exhibit A

1.	Owner Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006			1a. Date <u> </u>
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 Address:	: <u>Duke Power Company</u> 526 S. Church Street, Charlotte NC 28201-1006			18078748 - 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.		struction Code: <u>B31.1 19 67</u> Edition, —on of Section XI Utilized for Repairs or Replacements: <u>1989</u> ,	Addenda,No Addenda (1992 through 1	992 Addenda for Class	Code Cases MC and CC and their supports)
6.	Identification of Con	nponents Repaired or Replaced and Replacement Component	'c'		

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Míg. Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or	ASME Code Stamped
Α	1/01/10						Replacement	(yes or no)
	Valve		1.		l .,	ا ر ا	Repaired,	No No
	alpsw-14	Crane	Unavailable	A/A	N/A	NA	Replaced, Replacement	Yes
В							Repaired,	No
			j				Replaced,	
							Replacement	Yes
С			· i				Repaired,	No
		1				1	Replaced,	
D							Replacement	Yes
U							Repaired,	No
						[]	Replaced,	
E							Replacement	Yes
_						1	Repaired,	No
							Replaced,	
F							Replacement	Yes
1							Repaired,	No
			ĺ				Replaced,	
		<u> </u>					Replacement	Yes

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in 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 Wo	rk Replaced	Body / Bo	nnet bolling	<u>in al</u>	<u>-PSW</u>	-14
8.	Test Conducted:	: Hydrostatic	Pneumatic	Nom. Operating	ıg Press.	Other	Exempt
		Pressure	psia	Test Temp	٥E		
		Pressure		Test Temp			
	·	Pressure		Test Temp			
9.	Remarks			test remp.	`r		
		(Applicable	Manufacturer's D	ata Records to be atta	ached)		
	We certify that the conforms to the ru	e statements mander of the ASM	nade in the rep	OF COMPLIANCE port are correct and tion XI.	d this repa	ir or repi	lacement
	Signed P	horization No. N	Special	۸· ۱	xpiration Da		9
-							
	I, the undersigned, Pressure Vessel In HSBI and I Compa Owner's Report du knowledge and be described in this OXI. By signing this cert or implied, concern Report. Furthermoany personal injury inspection.	d, holding a valid Inspectors and the any of Hartford Juring the period elief, the Owner Owner's Report trificate neither the ore, neither the	d commission the State or Proceedings of the Inspector nor Inspector Inspector nor nspector no Insp	have inspected the to 12.6-99; a ed examinations are with the requirem nor his employer recrive measures this employer shall	tional Board J. C. le compone and state th and taken coments of AS makes any s described	and e ents desi- nat to the orrective SME Cod warrant d in the (employed by scribed in this e best of my e measures ode, Section aty, expressed Owner's
	MB Chapm Inspector's Signature		_ Commissio	ons <u>NC 914</u> National Board, S	 State, Province	ce and En	dorsements
Œ	Date <u>/2-6</u> , 9	<u>`9</u>					

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

Section E Exhibit A

1,	Owner Address:	<u>Duke Power Company</u>		1a. Date <u>12-15-9</u> 9
		526 S. Church Street, Charlotte NC 28201-1006		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 Address:	Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006		3a. Work Order # : 98103154-01 Repair Organization Job #
	Type Code Symbol	Stamp: N/A Authorization No. N/A Expiration Date: N/A		3b. NSM or MM #:
4.		System: LP	4. (b) Class of System: _	
5.	(a) Applicable Con(b) Applicable Editi	struction Code: <u>B31.7</u> 1969 Edition, _ on of Section XI Utilized for Repairs or Replacements: <u>1988</u>	Addenda,	Code Cases 992 Addenda for Class MC and CC and their supports)
6.	Identification of Con	ponents Repaired or Replaced and Replacement Compone	ents:	

	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	ASME Code Stamped
Α	/ 1						Replacement	(yes or no)
^	Valve				,	1 . 1	Repaired,	(No)
	2LP-95	Aloyco	Unavailable	NA	N/A	NA	Replaced,)
В	ACT 10	1 710 400	anavarjable	10/17	רווא	7/4	Replacement	Yes
U			1]	Repaired,	No
							Replaced,	
С							Replacement	Yes
0]]	Repaired,	No
	1						Replaced,	
D							Replacement	Yes
U		}					Repaired,	No
						1	Replaced,	
E							Replacement	Yes
_]	}			Repaired,	No
			1			[Replaced,	
F							Replacement	Yes
۲							Repaired,	No
			1				Replaced,	
	<u> </u>						Replacement	Yes

Date 12-15, 99

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 Wo	ork <u>Keplacer</u>	1 Body/1	30nnet bolti.	na mati	erial
		ı	,		7	
8.	Test Conducted	: Hydrostatic	Pneumatic	Nom. Operating	g Press.	Other Exempt
		Pressure	psia	Test Temp	۰E	<u> </u>
		Pressure		Test Temp		
	·	Pressure		Test Temp		
					 '	
9.	Remarks					
		/Applicable (
		(Applicable i	vianutacturer's Da	ata Records to be atta	ched)	
	We certify that th conforms to the r	ne statements m	ade in the rep	OF COMPLIANCE port are correct and tion XI.	d this repa	air or replacement
			-			
	Type Code Symb	ool Stamp <u>N/A</u>				
	Certificate of Auth	horization No. <u>N</u>	<u>i/A</u>	Ex	piration Da	ate <u>N/A</u>
	Signed A	-60	r 5-			
		Orm VI	- Decia	list Date	<u> 12 - 15</u>	<u>, 1999</u>
	Owner	er or Owner's Design	iee, Title			
÷						
		CERTIFIC	CATE OF INS	ERVICE INSPECT	TION	<u> </u>
	I, the undersigned	d, holding a valid	d commission	issued by the Nat	tional Boar	rd of Boiler and
	Pressure vessel I	Inspectors and t	the State or Pi	rovince of	11	and employed by
	risbi and i Comp	pany of Hartford	Connecticut I	have inspected the	e compon	ents described in this
	Owner's Heport a	luring the period	11-16-99	to 12.15.99 : a	and state th	hat to the best of my
	knowledge and be	ellet, the Owner	has performe	ed examinations ar	nd taken c	orrective measures
	described in this (Owner's Report	in accordance	with the requiren	nents of A	SME Code, Section
	Λι.					
	By signing this ce	rtificate neither	the Inspector	nor his employer r	makes any	y warranty, expressed
	or implied, concer	ming me examin	nations and co	orrective measures	s describe	ed in the Owner's
	neport. Furtherm	ore, neither the	Inspector nor	his employer sha	ll be liable	e in any manner for
•	any personal injur inspection.	y or property as	image or a los	s of any kind arisi	ing from o	r connected with this
	inspection.	Λ				
	MB./1/		- Commissi	!	,	
i	Inspector's Signature	apmon	Commission		4	
	nopositor s organications	•		National Board, S	3tate, Provin	nce and Endorsements

11.0 Pressure Testing

There are two refueling outages scheduled for the second period of the third inspection interval for Duke Power Company's Oconee Nuclear Station Unit 2. This section describes Pressure Tests performed during the 1999 refueling outage through the first refueling outage (also referred to as EOC-17).

Examination Category	Test Requirement	Total Examinations Required For This Period	Total Examinations Credited For This Period	(%) Examinations Complete For This Period
В-Е	System Hydrostatic Test (IWB-5222)	0	0	0%
300		twing and		
B-P	System Leakage Test (IWB-5221)	2	1	50%
B-P	System Hydrostatic Test (IWB-5222)	0	0	0%
A PARTY	非常意思 (487年代)	WARD STATE OF THE	Shirt the state of	-2.5
C-H	System Inservice/Functional Test (IWC-5221)	42	22	52.38%
С-Н	System Hydrostatic Test (IWC-5222)	12	4	33.33%

A detailed description of each examination category examined during EOC-17 is located in subsection 11.1 of this report. Results of each examination category examined during EOC-17 are located in subsection 11.2 of this report. A detailed description of each examination category that is required during the second inspection period is located in subsection 11.3 of this report. Results of each examination category examined during the second inspection period are located in subsection 11.4 of this report.

11.1 Required Examinations This Outage:

A listing of each Class 1 and Class 2 VT-2 Visual Examination required for EOC-17 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

systems (or portions of systems) that make up a

test.

Boundary 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) and

IWC-2500-1 (Class 2)

Duke Power Company - Oconee Unit 2 Pressure Testing Zone Number Listing

Outage 17

Int = 3

Zone Number	Boundary Drawing		uired Tes / I / F / H		Required	Required	ASME Item	
OZ2L-1		1	<u> </u>		Inspection	Procedure	Number(s)	Comments
JZZL-1	O-ISIL-100A-2.1	X		Reactor Coolant System	VT-2	QAL-15	B15.10 B15.30 B15.50 B15.60 B15.70	N/A
	O-ISIL-100A-2.2	X		Reactor Coolant System	VT-2	QAL-15	B15.20 B15.50 B15.70 C7.30 C7.70	N/A
	O-ISIL-100A-2.3	X		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.60 B15.70	N/A
	O-ISIL-101A-2.1	X		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70 C7.30 C7.70	N/A
	O-ISIL-101A-2.4	X		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-101A-2.5	х		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-102A-2.1	Х		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-102A-2.2	Х		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A
į	O-ISIL-102A-2.3	X		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-110A-2.1	X		Reactor Coolant System	VT-2	QAL-15	B15.50	N/A

Duke Power Company - Oconee Unit 2 Pressure Testing Zone Number Listing

Outage 17

int = 3

Zone Number	Boundary Drawing		•	d Tes F / H	t System Name	Required inspection	Required Procedure	ASME Item Number(s)	Comments
OZ2L-1							Troocaure	B15.70	Comments
	O-ISIL-110A-2.4	X			Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A
	O-ISIL-127B-2.2	×			Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70	N/A

Duke Power Company - Oconee Unit 2 Pressure Testing Zone Number Listing

Outage 17

int = 3

Zone Number	Boundary Drawing	Required Te		Required Inspection	Required Procedure	ASME Item Number(s)	Comments
IZ2L-14B	O-ISIL-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
IZ2L-4	O-ISIL-101A-2.1		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2H-21	O-ISIH-104A-1.2	X	Spent Fuel Cooling	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
OZ2H-23	O-ISIH-101A-2.2	X	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
OZ2H-7B	O-ISIH-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
OZ2H-9	O-ISIH-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
	O-ISIH-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A

Duke Power Company - Oconee Unit 2 Pressure Testing Zone Number Listing

Outage 17

Int = 3

Zone Number	Boundary Drawing	Requ	ired 1/F		st System Name	Required Inspection	Required Procedure	ASME Item Number(s)	Comments
	O-ISIH-102A-2.2			X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80	N/A
OZ2L-14B	O-ISIL-101A-2.4		×		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-15	O-ISIL-101A-2.4	,	x		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-16	O-ISIL-101A-2.4	,	×		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-17	O-ISIL-101A-2.2	;	×		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-18	O-ISIL-101A-2.2)	×		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-19A	O-ISIL-101A-2.5	>	K		High Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70	N/A
	O-ISIL-104A-1.1	>	\ <u></u>		Spent Fuel Cooling System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-2	O-ISIL-101A-2.1				High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70 D1.11	N/A
	O-ISIL-101A-2.4	×	(High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70 D1.11	N/A
	O-ISIL-101A-2.5	×			High Pressure Injection System	VT-2	QAL-15	C7.70 D1.11	N/A
OZ2L-21	O-ISIL-102A-2.1	X			Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A

Duke Power Company - Oconee Unit 2 Pressure Testing Zone Number Listing

Outage 17

Int = 3

Zone Number	Boundary Drawing			Tes / H	t System Name	Required Inspection	Required Procedure	ASME Item Number(s)	Comments
OZ2L-23	O-ISIL-101A-2.2	Х			High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-29	O-ISIL-102A-2.2	X			Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-3	O-ISIL-101A-2.1				High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70 D1.11	N/A
OZ2L-30	O-ISIL-102A-2.2	Х			Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-31A	O-ISIL-102A-2.3	×			Low Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70	N/A
OZ2L-31B	O-ISIL-102A-2.3	×			Low Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70	N/A
OZ2L-31C	O-ISIL-102A-2.3	X			Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-39	O-ISIL-104A-1.1	Х			Spent Fuel Cooling System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-42A	O-ISIL-110A-2.1	X			Chemical Addition System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-42B	O-ISIL-110A-2.1	Х			Chemical Addition System	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-64	O-ISIL-124B-2.2		X		Low Pressure Service Water	VT-2	QAL-15	C7.30 C7.70	N/A
OZ2L-69	O-ISIL-101A-2.2	X			High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70	N/A

11.2 <u>Examination Results For This Outage:</u>

The results of each Class 1 and Class 2 VT-2 Visual Examination required for EOC-17 are included in this section.

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

Zone Number = The unique number assigned to track certain systems

(or portions of systems) that make up a test.

Boundary 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.

Current Interval = 3
Current Period = 2
Class = A

Duke Power Company - Oconee Unit 2 Pressure Testing VT-2 Examination Results

Zone Number	Boundary Drawing	Outage	Test Status	Test Result	VT-2 Examiner	VT-2 Date
OZ2L-1	O-ISIL-100A-2.1	17	Complete	Clear	NA NA	12/13/1999
	O-ISIL-100A-2.2	17	Complete	Clear	NA	12/13/1999
	O-ISIL-100A-2.3	17	Complete	Clear	NA	12/13/1999
	O-ISIL-101A-2.1	17	Complete	Clear	NA	12/13/1999
	O-ISIL-101A-2.4	17	Complete	Clear	NA	12/13/1999
	O-ISIL-101A-2.5	17	Complete	Clear	NA	12/13/1999
	O-ISIL-102A-2.1	17	Complete	Clear	NA	12/13/1999
	O-ISIL-102A-2.2	17	Complete	Clear	NA	12/13/1999
	O-ISIL-102A-2.3	17	Complete	Clear	NA	12/13/1999
	O-ISIL-110A-2.1	17	Complete	Clear	NA	12/13/1999
	O-ISIL-110A-2.4	17	Complete	Clear	NA	12/13/1999
	O-ISIL-127B-2.2	17	Complete	Clear	NA	12/13/1999

Current Interval = 3 Current Period = 2 Class = B

Duke Power Company - Oconee Unit 2 Pressure Testing VT-2 Examination Results

Boundary

	Boundary					
Zone Number	Drawing	Outage	Test Status	Test Result	VT-2 Examiner	VT-2 Date
IZ2L-14B	O-ISIL-101A-2.3	17	Complete	Clear	NA NA	12/12/1999
IZ2L-4	O-ISIL-101A-2.1	17	Complete	Clear	n/a	11/08/1999
OZ2H-21	O-ISIH-104A-1.2	17	Complete	Clear	NA	11/05/1999
	O-ISIH-102A-2.1	17	Complete	Clear	NA	
	O-ISIH-102A-2.2	17	Complete	Clear	NA	11/05/1999
OZ2H-23	O-ISIH-101A-2.2	17	Complete	Clear	NA NA	11/05/1999
	O-ISIH-102A-2.1	17	Complete	Clear	NA NA	11/27/1999
	O-ISIH-102A-2.2	17	Complete	Clear	NA NA	11/27/1999
OZ2H-7B	O-ISIH-101A-2.3	17	Complete	Clear		11/27/1999
	O-ISIH-102A-2.1	17	Complete	Clear	NA	12/11/1999
	O-ISIH-102A-2.2	17	Complete	Clear	NA	12/11/1999
OZ2H-9	O-ISIH-101A-2.3	17	Complete		NA	12/11/1999
	O-ISIH-102A-2.1	17	Complete	Clear	NA	12/10/1999
	O-ISIH-102A-2.2	17	•	Clear	NA	12/10/1999
OZ2L-14B	O-ISIL-101A-2.4	17	Complete	Clear	NA	12/10/1999
OZ2L-15	O-ISIL-101A-2.4		Complete	Clear	NA	12/12/1999
OZ2L-16		17	Complete	Clear	NA	12/13/1999
	O-ISIL-101A-2.4	17	Complete	Clear	NA	12/12/1999
OZ2L-17	O-ISIL-101A-2.2	17	Complete	Clear	N/A	12/12/1999
OZ2L-18	O-ISIL-101A-2.2	17	Complete	Clear	N/A	12/11/1999
OZ2L-19A	O-ISIL-101A-2.5	17	Complete	Clear	NA	12/09/1999
	O-ISIL-104A-1.1	17	Complete	Clear	NA	12/09/1999
OZ2L-2	O-ISIL-101A-2.1	17	Complete	Clear	NA	11/04/1999
	O-ISIL-101A-2.4	17	Complete	Clear	NA	11/04/1999
	O-ISIL-101A-2.5	17	Complete	Clear	NA	11/04/1999

Current Interval = 3 Current Period = 2 Class = B

Duke Power Company - Oconee Unit 2
Pressure Testing VT-2 Examination Results

Boundary

	Douriuai y					
Zone Number	Drawing	Outage	Test Status	Test Result	VT-2 Examiner	VT-2 Date
OZ2L-21	O-ISIL-102A-2.1	17	Complete	Clear	na	11/05/1999
OZ2L-23	O-ISIL-101A-2.2	17	Complete	Clear	NA	11/27/1999
OZ2L-29	O-ISIL-102A-2.2	17	Complete	Clear	NA	12/11/1999
OZ2L-3	O-ISIL-101A-2.1	17	Complete	Clear	n/a	11/08/1999
OZ2L-30	O-ISIL-102A-2.2	17	Complete	Clear	NA	12/11/1999
OZ2L-31A	O-ISIL-102A-2.3	17	Complete	Clear	n/a	11/04/1999
OZ2L-31B	O-ISIL-102A-2.3	17	Complete	Clear	n/a	11/04/1999
OZ2L-31C	O-ISIL-102A-2.3	17	Complete	Clear	n/a	11/04/1999
OZ2L-39	O-ISIL-104A-1.1	17	Complete	Clear	n/a	11/11/1999
OZ2L-42A	O-ISIL-110A-2.1	17	Complete	Clear	NA	12/13/1999
OZ2L-42B	O-ISIL-110A-2.1	17	Complete	Clear	NA	12/13/1999
OZ2L-64	O-ISIL-124B-2.2	17	Complete	Clear	NA	12/03/1999
OZ2L-69	O-ISIL-101A-2.2	17	Complete	Clear	NA	12/03/1999

11.3 Required Examinations For Second Inspection Period:

A listing of each VT-2 Visual Examination required for the Second Inspection Period 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

systems (or portions of systems) that make up a

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 = ASME Section XI Tables IWB-2500-1 (Class 1) and

Number(s) IWC-2500-1 (Class 2)

Zone Number	Flow Drawing	Required L/I/F		t System Name	Required Inspection	Required Procedure	ASME Item Number(s)
IZ2H-10	O-ISIH-101A-2.3		Х	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
IZ2H-11	O-ISIH-101A-2.3		X	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
IZ2H-22	O-ISIH-104A-1.2		X	Spent Fuel Cooling	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-101A-2.3		Х	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.1		X	Low Pressure Injection System	VT-2	QAL-15	C7.20 C7.40 C7.80 D1.12
IZ2H-27A	O-ISIH-102A-2.1		X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.2		X	Low Pressure Injection System	VT-2	QAL-15	C7.20 C7.40 C7.60 C7.80
IZ2H-27B	O-ISIH-102A-2.2		X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
IZ2L-1	O-ISIL-124A-2.3	X		Low Pressure Service Water	VT-2	QAL-15	D2.11
IZ2L-12	O-ISIL-101A-2.3	X		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-101A-2.4	X		High Pressure Injection System	VT-2	QAL-15	C7.30

Zone Number	Flow Drawing	Required Te L/I/F/H		Required Inspection	Required Procedure	ASME Item Number(s)
IZ2L-12						C7.70 D1.11
IZ2L-13	O-ISIL-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.50 C7.70
IZ2L-14A	O-ISIL-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.50 C7.70
IZ2L-14B	O-ISIL-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
IZ2L-20	O-ISIL-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.50 C7.70
IZ2L-22	O-ISIL-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.10 C7:30 C7.70 D1.11
	O-ISIL-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-104A-1.2	X	Spent Fuel Cooling System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-106A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	D1.11
IZ2L-24	O-ISIL-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70

Zone Number	Flow Drawing	Required Tes L/I/F/H	t System Name	Required Inspection	Required Procedure	ASME Item Number(s)
IZ2L-24	O-ISIL-103A-2.1	X	Reactor Building Spray System	VT-2	QAL-15	C7.30 C7.50 C7.70
IZ2L-25	O-ISIL-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-103A-2.1	X	Reactor Building Spray System	VT-2	QAL-15	C7.30 C7.50 C7.70
IZ2L-4	O-ISIL-101A-2.1		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
IZ2L-41	O-ISIL-109A-1.1	x	Purification Demineralizers	VT-2	QAL-15	C7.30 C7.70
IZ2L-45	O-ISIL-121A-1.8	X	Condensate System	VT-2	QAL-15	D2.11
IZ2L-48	O-ISIL-122A-2.1	X	Main Steam System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-122A-2.2	X	Main Steam System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-122A-2.3	X	Main Steam System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-122A-2.4		Main Steam System	VT-2	QAL-15	C7.30 C7.70 D2.11
	O-ISIL-122B-2.1	X	Main Steam System	VT-2	QAL-15	C7.30 C7.70

Zone Number	Flow Drawing	Required Te L/I/F/H		Required Inspection	Required Procedure	ASME Item Number(s)
IZ2L-5	O-ISIL-101A-2.1		High Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70
	O-ISIL-101A-2.3	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
IZ2L-50	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
IZ2L-52	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
IZ2L-53	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
IZ2L-60	O-ISIL-124A-1.1	X	Low Pressure Service Water	VT-2	QAL-15	D2.11
	O-ISIL-124A-2.3	X	Low Pressure Service Water	VT-2	QAL-15	D2.11
	O-ISIL-124B-2.1	X	Low Pressure Service Water	VT-2	QAL-15	D2.11
	O-ISIL-124B-2.2	X	Low Pressure Service Water	VT-2	QAL-15	C7.30 C7.70 D2.11
	O-ISIL-124B-2.4		Low Pressure Service Water	VT-2	QAL-15	C7.30 C7.70 D2.11
	O-ISIL-124C-2.2	X	High Pressure Service Water	VT-2	QAL-15	D2.11
IZ2L-66	O-ISIL-133A-2.2	X	Condenser Circulating Water	VT-2	QAL-15	D2.11
IZ2L-67	O-ISIL-133A-2.2	X	Condenser Circulating Water	VT-2	QAL-15	D2.11
	O-ISIL-124C-2.2	X	High Pressure Service Water	VT-2	QAL-15	D2.11
Z2L-75	O-ISIL-135A-1.2	X	Fuel Oil System	VT-2	QAL-15	D2.11

Zone Number	Flow Drawing	Required Test L/I/F/H	System Name	Required Inspection	Required Procedure	ASME Item Number(s)
IZ2L-76	O-ISIL-135A-1.2	x	Fuel Oil System	VT-2	QAL-15	D2.11
IZ2L-77	O-ISIL-135A-1.2	x	Fuel Oil System	VT-2	QAL-15	D2.11
IZ2L-78	O-ISIL-135A-1.2	x	Fuel Oil System	VT-2	QAL-15	D2.11
IZ2L-79	O-ISIL-135B-1.4	x	Lube Oil System	VT-2	QAL-15	D2.11
IZ2L-80	O-ISIL-135B-1.4	x	Lube Oil System	VT-2	QAL-15	D2.11
OZ2H-21	O-ISIH-104A-1.2	X	Spent Fuel Cooling	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
OZ2H-23	O-ISIH-101A-2.2	X	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.1	Х	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
OZ2H-26	O-ISIH-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.20 C7.40 C7.60 C7.80
OZ2H-28	O-ISIH-102A-2.2		Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.60

_	Flow	Req	uirec	l Tes	t	Required	Required	
Zone Number	Drawing		/		System Name	Inspection	Procedure	ASME Item Number(s)
OZ2H-28								C7.80
OZ2H-7	O-ISIH-101A-2.2			Х	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-101A-2.3			Х	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
OZ2H-7B	O-ISIH-101A-2.3			х	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.1			Х	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.2			X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
OZ2H-9	O-ISIH-101A-2.3			x	High Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
,	O-ISIH-102A-2.1			X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
	O-ISIH-102A-2.2			X	Low Pressure Injection System	VT-2	QAL-15	C7.40 C7.80
OZ2L-1	O-ISIL-100A-2.1	×			Reactor Coolant System	VT-2	QAL-15	B15.10 B15.30 B15.50 B15.60 B15.70
	O-ISIL-100A-2.2	X			Reactor Coolant System	VT-2	QAL-15	B15.20 B15.50

Zone Number	Flow Drawing		quire / I /		Гest Н	System Name	Required Inspection	Required Procedure	ASME Item Number(s)
OZ2L-1									B15.70 C7.30 C7.70
OZ2L-1	O-ISIL-100A-2.3	X				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.60 B15.70
	O-ISIL-101A-2.1	X				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70 C7.30 C7.70
	O-ISIL-101A-2.4	Х				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
	O-ISIL-101A-2.5	X				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
	O-ISIL-102A-2.1	х				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
	O-ISIL-102A-2.2	X				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
	O-ISIL-102A-2.3	X				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
	O-ISIL-110A-2.1	Х				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
	O-ISIL-110A-2.4	Х				Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
			1	 	1		1	1	

Zone Number	Flow Drawing		uired Tes I/F/H	t System Name	Required Inspection	Required Procedure	ASME Item Number(s)
OZ2L-1	O-ISIL-127B-2.2	X		Reactor Coolant System	VT-2	QAL-15	B15.50 B15.70
OZ2L-14B	O-ISIL-101A-2.4	2	x	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-15	O-ISIL-101A-2.4)	×	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-16	O-ISIL-101A-2.4	,	x	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-17	O-ISIL-101A-2.2	,	×	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-18	O-ISIL-101A-2.2)	×	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-19A	O-ISIL-101A-2.5	\	K	High Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70
	O-ISIL-104A-1.1	>		Spent Fuel Cooling System	VT-2	QAL-15	C7.30 C7.70
OZ2L-2	O-ISIL-100A-2.3	>	(Reactor Coolant Pump Seal	VT-2	QAL-15	D1.11
	O-ISIL-101A-2.1			High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70 D1.11
	O-ISIL-101A-2.4	×		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70 D1.11

Zone Number	Flow Drawing	Required Tes L/I/F/H	t System Name	Required Inspection	Required Procedure	ASME Item Number(s)
OZ2L-2	O-ISIL-101A-2.5	x	High Pressure Injection System	VT-2	QAL-15	C7.70 D1.11
OZ2L-21	O-ISIL-102A-2.1	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-23	O-ISIL-101A-2.2	X	High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-29	O-ISIL-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-3	O-ISIL-101A-2.1		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70 D1.11
OZ2L-30	O-ISIL-102A-2.2	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-31A	O-ISIL-102A-2.3	X	Low Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70
OZ2L-31B	O-ISIL-102A-2.3	X	Low Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70
OZ2L-31C	O-ISIL-102A-2.3	X	Low Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-32	O-ISIL-102A-2.3	X	Low Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70

Zone Number	Flow Drawing	Required T L/I/F/		Required Inspection	Required Procedure	ASME Item Number(s)
OZ2L-32	O-ISIL-127B-2.2	X	Nitrogen Purge & Blanket System	VT-2	QAL-15	C7.30 C7.70
OZ2L-33	O-ISIL-102A-2.3	X	Low Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70
	O-ISIL-127B-2.2	×	Nitrogen Purge & Blanket System	VT-2	QAL-15	C7.30 C7.70
OZ2L-39	O-ISIL-104A-1.1	X	Spent Fuel Cooling System	VT-2	QAL-15	C7.30 C7.70
OZ2L-42A	O-ISIL-110A-2.1	X	Chemical Addition System	VT-2	QAL-15	C7.30 C7.70
OZ2L-42B	O-ISIL-110A-2.1	X	Chemical Addition System	VT-2	QAL-15	C7.30 C7.70
OZ2L-43	O-ISIL-121A-2.3	X	Condensate System	VT-2	QAL-15	D2.11
	O-ISIL-121A-2.8	X	Condensate System	VT-2	QAL-15	D2.11
OZ2L-44	O-ISIL-121D-1.2	X	Emergency Feedwater	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-133A-2.5	X	Condenser Circulating Water	VT-2	QAL-15	D2.11
	O-ISIL-110A-2.1	X	Chemical Addition System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-121B-2.3		Feedwater System	VT-2	QAL-15	C7.30 C7.70 D2.11

Zone Number	Flow Drawing	Required Te	st System Name	Required Inspection	Required Procedure	ASME Item Number(s)
OZ2L-44	O-ISIL-121B-2.5	X	Feedwater System	VT-2	QAL-15	C7.10 C7.30 C7.70 D2.11
	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	C7.30 C7.70 D2.11
	O-ISIL-122A-2.1	X	Main Steam System	VT-2	QAL-15	C7.30 C7.70
OZ2L-45	O-ISIL-121A-1.8	x	Condensate	VT-2	QAL-15	D2.11
	O-ISIL-121A-2.7	X	Condensate System	VT-2	QAL-15	D2.11
	O-ISIL-121A-2.8	X	Condensate System	VT-2	QAL-15	D2.11
	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
OZ2L-51	O-ISIL-121D-2.1	x	Emergency Feedwater System	VT-2	QAL-15	D2.11
OZ2L-54	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
OZ2L-55	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
OZ2L-56	O-ISIL-121D-2.1	X	Emergency Feedwater System	VT-2	QAL-15	D2.11
OZ2L-58	O-ISIL-124B-2.1	X	Low Pressure Service Water	VT-2	QAL-15	D2.11
OZ2L-59	O-ISIL-124B-2.1	X	Low Pressure Service Water	VT-2	QAL-15	D2.11
OZ2L-6	O-ISIL-109A-1.1	X	Purification Demineralizers	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-101A-2.1		High Pressure Injection System	VT-2	QAL-15	C7.30

Zone Number	Flow Drawing			ed Te F/H		Required	Required	
OZ2L-6	Drawnig	<u> </u>	/ / /	F/H	System Name	Inspection	Procedure	ASME Item Number(s)
		_						C7.70
OZ2L-6	O-ISIL-101A-2.2		Х		High Pressure Injection System	VT-2	QAL-15	C7.10 C7.30 C7.70 D1.11
	O-ISIL-110A-2.1		Х		High Pressure Injection System	VT-2	QAL-15	D1.11
OZ2L-64	O-ISIL-124B-2.2			х	Low Pressure Service Water	VT-2	QAL-15	C7.30 C7.70
OZ2L-65	O-ISIL-124B-2.4				Low Pressure Service Water	VT-2	QAL-15	C7.30 C7.70
OZ2L-68	O-ISIL-144A-2.2			x	Component Cooling System	VT-2	QAL-15	D2.11
OZ2L-69	O-ISIL-101A-2.2		Х		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-7	O-ISIL-101A-2.2		X		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
	O-ISIL-101A-2.3		X		High Pressure Injection System	VT-2	QAL-15	C7.30 C7.70
OZ2L-70	O-ISIL-121D-1.2]	x	Emergency Feedwater	VT-2	QAL-15	D2.11
	O-ISIL-121D-2.1		_[;	<	Emergency Feedwater System	VT-2	QAL-15	D2.11
DZ2L-89	O-ISIL-116C-2.1		X		Reactor Building Hydrogen Purge	VT-2	QAL-15	C7.30 C7.70
DZ2L-90	O-ISIL-116C-2.1]	X		Reactor Building Hydrogen Purge	VT-2	QAL-15	C7.30 C7.70

Zone Number	Flow Drawing	Required Tes	st System Name	Required Inspection	Required Procedure	ASME Item Number(s)
OZ2L-91	O-ISIL-116C-2.1	1 X	Reactor Building Hydrogen Purge	VT-2	QAL-15	C7.30 C7.70

11.4 Examination Results For Second Inspection Period:

The results of each VT-2 Visual Examination required for the Second Inspection Period are included in this section.

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

Zone Number	=	The unique number assigned to track certain systems (or portions of systems) that make up a test.
Flow Drawing	=	Detail drawing of pressure test boundary.
RFO15 Date	=	The date of any VT-2 Examinations performed during refueling outage cycle 15.
RFO16 Date	=	The date of any VT-2 Examinations performed during refueling outage cycle 16.
RFO17 Date	=	The date of any VT-2 Examinations performed during refueling outage cycle 17.
RFO18 Date	=	The date of any VT-2 Examinations performed during refueling outage cycle 18.
RFO19 Date	=	The date of any VT-2 Examinations performed during refueling outage cycle 19.
RFO20 Date	=	The date of any VT-2 Examinations performed during refueling outage cycle 20.

Duke Energy Corpolation - Oconee Unit 2 Pressure Testing VT-2 Examination Results For 2nd Period

Zone Number	Flow Drawing	RFO 15 Date	RFO 16 Date	RFO 17 Date	RFO 18 Date	RFO 19 Date	RFO 20 Date
IZ2H-10	O-ISIH-101A-2.3	Not Scheduled	Not Scheduled	//	11	Not Scheduled	Not Scheduled
IZ2H-11	O-ISIH-101A-2.3	Not Scheduled	Not Scheduled	11	11	Not Scheduled	Not Scheduled
IZ2H-22	O-ISIH-104A-1.2	Not Scheduled	Not Scheduled	11	//	Not Scheduled	Not Scheduled
	O-ISIH-101A-2.3	Not Scheduled	Not Scheduled	11	//	Not Scheduled	Not Scheduled
	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	//	11	/ /	/ /
IZ2H-25	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	//	//	Not Scheduled	Not Scheduled
IZ2H-27A	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	//	11	Not Scheduled	Not Scheduled
	O-ISIH-102A-2.2	Not Scheduled	Not Scheduled	11	11	Not Scheduled	Not Scheduled
IZ2H-27B	O-ISIH-102A-2.2	Not Scheduled	Not Scheduled	//	11	Not Scheduled	
IZ2L-1	O-ISIL-124A-2.3	11	06/17/1997	11	11	Not Scheduled	Not Scheduled
IZ2L-12	O-ISIL-101A-2.3	11	05/11/1998		11		Not Scheduled
	O-ISIL-101A-2.4	11	03/10/1998	11	11	Not Scheduled	Not Scheduled
IZ2L-13	O-ISIL-101A-2.3	//	05/11/1998		//	Not Scheduled	Not Scheduled
IZ2L-14A	O-ISIL-101A-2,3	11	05/11/1998		11	Not Scheduled	Not Scheduled
IZ2L-14B	O-ISIL-101A-2.3	11	05/11/1998	12/12/1999	·	Not Scheduled	Not Scheduled
IZ2L-20	O-ISIL-101A-2.3	11	05/11/1998		//	Not Scheduled	Not Scheduled
IZ2L-22	O-ISIL-102A-2.1			11	11	Not Scheduled	Not Scheduled
	O-ISIL-102A-2.2		05/16/1998	11	11	11	11
		/ /	05/11/1998	//	11	Not Scheduled	Not Scheduled
IZ2L-24	O-ISIL-106A-2.2		05/11/1998	11	/ /	Not Scheduled	Not Scheduled
122L-24	O-ISIL-102A-2.1	11	05/16/1998	11	11	Not Scheduled	Not Scheduled
	O-ISIL-103A-2.1	11	05/16/1998	11	11	Not Scheduled	Not Scheduled
IZ2L-25	O-ISIL-103A-2.1	11	05/16/1998	//	11	Not Scheduled	Not Scheduled
IZ2L-4	O-ISIL-101A-2.1	11	03/10/1998	11/08/1999	11	Not Scheduled	Not Scheduled

Duke Energy Corporation - Oconee Unit 2 Pressure Testing VT-2 Examination Results For 2nd Period

Zone Number	Flow Drawing	RFO 15 Date	RFO 16 Date	RFO 17 Date	RFO 18 Date	RFO 19 Date	RFO 20 Date
IZ2L-41	O-ISIL-109A-1.1	11	03/14/1998	11	11	Not Scheduled	Not Scheduled
IZ2L-45	O-ISIL-121A-1.8	11	02/09/1998	//	11	Not Scheduled	Not Scheduled
IZ2L-48	O-ISIL-122A-2.1	05/05/1996	//	//	//	Not Scheduled	Not Scheduled
	O-ISIL-122A-2.2	05/05/1996	11	11	11	Not Scheduled	Not Scheduled
	O-ISIL-122A-2.3	05/05/1996	//	//	11	Not Scheduled	Not Scheduled
	O-ISIL-122A-2.4	05/05/1996	11	//	11	Not Scheduled	Not Scheduled
	O-ISIL-122B-2.1	05/05/1996	//	11	11	Not Scheduled	Not Scheduled
IZ2L-5	O-ISIL-101A-2.1	11	03/10/1998	11	11	Not Scheduled	Not Scheduled
	O-ISIL-101A-2.3	11	05/11/1998	11	11	Not Scheduled	
IZ2L-50	O-ISIL-121D-2.1	11	05/19/1998	11	11	Not Scheduled	Not Scheduled
IZ2L-52	O-ISIL-121D-2.1	//	05/19/1998	12/08/1999	//		Not Scheduled
IZ2L-53	O-ISIL-121D-2.1	//	05/19/1998	12/08/1999		Not Scheduled	Not Scheduled
IZ2L-60	O-ISIL-124A-1.1	11			11	Not Scheduled	Not Scheduled
	O-ISIL-124A-2.3	//	06/17/1997	//	11	Not Scheduled	Not Scheduled
	O-ISIL-124B-2.1	11	06/17/1997	11	/ /	Not Scheduled	Not Scheduled
	O-ISIL-124B-2.2		06/17/1997	//	/ /	Not Scheduled	Not Scheduled
	O-ISIL-124B-2.4	//	06/17/1997	11	/ /	Not Scheduled	Not Scheduled
	O-ISIL-1246-2.4	//	06/17/1997	/ /	11	Not Scheduled	Not Scheduled
IZ2L-66		/ /	06/17/1997		11	Not Scheduled	Not Scheduled
	O-ISIL-133A-2.2	/ /	05/21/1998	//	11	Not Scheduled	Not Scheduled
IZ2L-67	O-ISIL-133A-2.2	11	05/21/1998	11	11	Not Scheduled	Not Scheduled
170.	O-ISIL-124C-2.2	//	06/17/1997	//	//	Not Scheduled	Not Scheduled
IZ2L-75	O-ISIL-135A-1.2	11	04/01/1998	11	//	Not Scheduled	Not Scheduled
IZ2L-76	O-ISIL-135A-1.2	//	04/01/1998	11	11	Not Scheduled	Not Scheduled
IZ2L-77	O-ISIL-135A-1.2	11	04/01/1998	//	11	Not Scheduled	Not Scheduled

Duke Energy Corpording - Oconee Unit 2 Pressure Testing VT-2 Examination Results For 2nd Period

Zone Number	Flow Drawing	RFO 15 Date	RFO 16 Date	RFO 17 Date	RFO 18 Date	RFO 19 Date	RFO 20 Date
IZ2L-78	O-ISIL-135A-1.2	//	04/01/1998	11	//	Not Scheduled	
IZ2L-79	O-ISIL-135B-1.4	11	04/01/1998	11	11		Not Scheduled
IZ2L-80	O-ISIL-135B-1.4	11	04/01/1998	11	11	Not Scheduled	Not Scheduled
OZ2H-21	O-ISIH-104A-1.2	Not Scheduled	Not Scheduled	11/05/1999		Not Scheduled	Not Scheduled
	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	11/05/1999	//	Not Scheduled	Not Scheduled
	O-ISIH-102A-2.2	Not Scheduled	Not Scheduled	11/05/1999	/ /	11	11
OZ2H-23	O-ISIH-101A-2.2	Not Scheduled	Not Scheduled			Not Scheduled	Not Scheduled
	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	11/27/1999	11	/ /	11
	O-ISIH-102A-2.2	Not Scheduled		11/27/1999	11	Not Scheduled	Not Scheduled
OZ2H-26	O-ISIH-102A-2.2	Not Scheduled	Not Scheduled	11/27/1999	//	Not Scheduled	Not Scheduled
OZ2H-28	O-ISIH-102A-2.2		Not Scheduled	/ /	/ /	Not Scheduled	Not Scheduled
OZ2H-7	O-ISIH-101A-2.2	Not Scheduled	Not Scheduled	/ /	11	Not Scheduled	Not Scheduled
· · · · ·	O-ISIH-101A-2.3	Not Scheduled	Not Scheduled	11	11	11	11
OZ2H-7B		Not Scheduled	Not Scheduled	11	/ /	11	11
O2211-7 B	O-ISIH-101A-2.3	Not Scheduled	Not Scheduled	12/11/1999	//	Not Scheduled	Not Scheduled
	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	12/11/1999	11	Not Scheduled	Not Scheduled
070110	O-ISIH-102A-2.2	Not Scheduled	Not Scheduled	12/11/1999	11	Not Scheduled	Not Scheduled
OZ2H-9	O-ISIH-101A-2.3	Not Scheduled	Not Scheduled	12/10/1999	11	Not Scheduled	Not Scheduled
	O-ISIH-102A-2.1	Not Scheduled	Not Scheduled	12/10/1999	11	Not Scheduled	Not Scheduled
	O-ISIH-102A-2.2	Not Scheduled	Not Scheduled	12/10/1999	//	Not Scheduled	Not Scheduled
OZ2L-1	O-ISIL-100A-2.1	11	05/19/1998	12/13/1999	//	//	/ /
	O-ISIL-100A-2.2	11	05/19/1998	12/13/1999	11	11	11
	O-ISIL-100A-2.3	11	05/19/1998	12/13/1999	11	11	11
	O-ISIL-101A-2.1	11	05/19/1998	12/13/1999	11	11	
	O-ISIL-101A-2.4	11	05/19/1998	12/13/1999	11	11	/

Zone Number	Flow Drawing	RFO 15 Date	RFO 16 Date	RFO 17 Date	RFO 18 Date	RFO 19 Date	RFO 20 Date
	O-ISIL-101A-2.5	11	05/19/1998	12/13/1999	11		
	O-ISIL-102A-2.1	11	05/19/1998	12/13/1999	11	//	11
	O-ISIL-102A-2.2	11	05/19/1998	12/13/1999	, , , ,	11	//
	O-ISIL-102A-2.3	11	05/19/1998	12/13/1999	, , , ,	//	//
	O-ISIL-110A-2.1	11	05/19/1998	12/13/1999	11	11	11
	O-ISIL-110A-2.4	//	05/19/1998	12/13/1999	11	11	//
	O-ISIL-127B-2.2	11	05/19/1998	12/13/1999	11	//	//
OZ2L-14B	O-ISIL-101A-2.4	//	03/10/1998	12/12/1999		11	11
OZ2L-15	O-ISIL-101A-2.4	11	03/10/1998	12/13/1999	11	Not Scheduled	Not Scheduled
OZ2L-16	O-ISIL-101A-2.4	11	03/10/1998		11	Not Scheduled	Not Scheduled
OZ2L-17	O-ISIL-101A-2.2	11	05/14/1998	12/12/1999	11	Not Scheduled	Not Scheduled
OZ2L-18	O-ISIL-101A-2.2	11	05/14/1998	12/12/1999	11	Not Scheduled	Not Scheduled
OZ2L-19A	O-ISIL-101A-2.5	04/28/1996	· · · · · · · · · · · · · · · · · · ·	12/11/1999	/ /	Not Scheduled	Not Scheduled
	O-ISIL-104A-1.1		//	12/09/1999	//	Not Scheduled	Not Scheduled
OZ2L-2	O-ISIL-100A-2.3	04/28/1996	//	12/09/1999	//	Not Scheduled	Not Scheduled
	O-ISIL-101A-2.1	03/28/1996	11	11/04/1999	//	Not Scheduled	Not Scheduled
	O-ISIL-101A-2.4	03/28/1996	03/10/1998	11/04/1999	//	Not Scheduled	Not Scheduled
	O-ISIL-101A-2.5	11	03/10/1998	11/04/1999	11	Not Scheduled	Not Scheduled
OZ2L-21		04/28/1996	//	11/04/1999	11	Not Scheduled	Not Scheduled
OZ2L-23	O-ISIL-102A-2.1	/ /	05/16/1998	11/05/1999	11	11	11
OZ2L-23	O-ISIL-101A-2.2	11	05/14/1998	11/27/1999	11	11	//
	O-ISIL-102A-2.2	/ /	05/11/1998	12/11/1999	11	Not Scheduled	Not Scheduled
OZ2L-3	O-ISIL-101A-2.1	03/28/1996	03/10/1998	11/08/1999	11	Not Scheduled	Not Scheduled
OZ2L-30	O-ISIL-102A-2.2	11	05/11/1998	12/11/1999	11	Not Scheduled	Not Scheduled
OZ2L-31A	O-ISIL-102A-2.3	//	02/11/1998	11/04/1999	11	Not Scheduled	Not Scheduled

Duke Energy Corporation - Oconee Unit 2 Pressure Testing VT-2 Examination Results For 2nd Period

Zone Number	Flow Drawing	RFO 15 Date	RFO 16 Date	RFO 17 Date	RFO 18 Date	RFO 19 Date	RFO 20 Date
OZ2L-31B	O-ISIL-102A-2.3	11	02/11/1998	11/04/1999	11	Not Scheduled	Not Scheduled
OZ2L-31C	O-ISIL-102A-2.3	11	02/11/1998	11/04/1999	//	Not Scheduled	Not Scheduled
OZ2L-32	O-ISIL-102A-2.3	11	02/11/1998	//	11	Not Scheduled	Not Scheduled
	O-ISIL-127B-2.2	11	02/11/1998	//	11	Not Scheduled	Not Scheduled
OZ2L-33	O-ISIL-102A-2.3	11	02/11/1998	//	11	Not Scheduled	Not Scheduled
	O-ISIL-127B-2.2	11	02/11/1998	11	11	Not Scheduled	Not Scheduled
OZ2L-39	O-ISIL-104A-1.1	04/28/1996	//	11/11/1999	11	Not Scheduled	
OZ2L-42A	O-ISIL-110A-2.1	05/05/1996	11	12/13/1999	11	Not Scheduled	Not Scheduled
OZ2L-42B	O-ISIL-110A-2.1	05/05/1996	11	12/13/1999	//		Not Scheduled
OZ2L-43	O-ISIL-121A-2.3	//	04/30/1998	12/07/1999	11	Not Scheduled	Not Scheduled
	O-ISIL-121A-2.8	11	04/30/1998	12/07/1999	11	Not Scheduled	Not Scheduled
OZ2L-44	O-ISIL-121D-1.2	05/05/1996	11	//		Not Scheduled	Not Scheduled
	O-ISIL-133A-2.5	05/05/1996	11	11	11	Not Scheduled	Not Scheduled
	O-ISIL-110A-2.1	05/05/1996	11	/ /	11	Not Scheduled	Not Scheduled
	O-ISIL-121B-2.3	05/05/1996	05/19/1998	11	11	Not Scheduled	Not Scheduled
	O-ISIL-121B-2.5	05/05/1996	11	11	11	Not Scheduled	Not Scheduled
	O-ISIL-121D-2.1	05/05/1996	05/19/1998	11	11	Not Scheduled	Not Scheduled
	O-ISIL-122A-2.1	05/05/1996	//	11	11	Not Scheduled	Not Scheduled
OZ2L-45	O-ISIL-121A-1.8	11 .	02/09/1998	11	11	Not Scheduled	Not Scheduled
	O-ISIL-121A-2.7	11	02/09/1998	//		Not Scheduled	Not Scheduled
	O-ISIL-121A-2.8	11	04/30/1998		11	Not Scheduled	Not Scheduled
	O-ISIL-121D-2.1	//	05/19/1998	/ /	//	Not Scheduled	Not Scheduled
OZ2L-51	O-ISIL-121D-2.1			11	11	Not Scheduled	Not Scheduled
OZ2L-54	O-ISIL-121D-2.1		05/19/1998	/ /	11	Not Scheduled	Not Scheduled
V-	O 101L-121D-2.1	/ /	05/19/1998	12/08/1999	//	Not Scheduled	Not Scheduled

Duke Energy Corpo - Oconee Unit 2 Pressure Testing VT-2 Examination Results For 2nd Period

Zone Number	Flow Drawing	RFO 15 Date	RFO 16 Date	RFO 17 Date	RFO 18 Date	RFO 19 Date	RFO 20 Date
OZ2L-55	O-ISIL-121D-2.1	11	05/19/1998	12/08/1999	//		
OZ2L-56	O-ISIL-121D-2.1	11	05/19/1998	12/08/1999		Not Scheduled	Not Scheduled
OZ2L-58	O-ISIL-124B-2.1	11	06/17/1997	/ /		Not Scheduled	Not Scheduled
OZ2L-59	O-ISIL-124B-2.1	//	06/17/1997			Not Scheduled	Not Scheduled
OZ2L-6	O-ISIL-109A-1.1			11		Not Scheduled	Not Scheduled
	O-ISIL-101A-2.1		03/14/1998	11	/ /	Not Scheduled	Not Scheduled
		//	03/10/1998	/ /	/ /	Not Scheduled	Not Scheduled
	O-ISIL-101A-2.2	04/18/1996	05/14/1998	/ /	11	Not Scheduled	Not Scheduled
0701.04	O-ISIL-110A-2.1	04/18/1996	11	11	11	Not Scheduled	Not Scheduled
OZ2L-64	O-ISIL-124B-2.2	/ /	06/17/1997	12/03/1999	11	Not Scheduled	Not Scheduled
OZ2L-65	O-ISIL-124B-2.4	11	06/17/1997	//	//	Not Scheduled	Not Scheduled
OZ2L-68	O-ISIL-144A-2.2	04/30/1996	11	12/04/1999	//	Not Scheduled	
OZ2L-69	O-ISIL-101A-2.2	11	05/14/1998	12/03/1999	11		Not Scheduled
OZ2L-7	O-ISIL-101A-2.2	11	05/14/1998	/ /		Not Scheduled	Not Scheduled
	O-ISIL-101A-2.3	11	05/11/1998	11	//	/ /	//
OZ2L-70	O-ISIL-121D-1.2	05/05/1996	/ /			//	11
	O-ISIL-121D-2.1	/ /		/ /	/ /	Not Scheduled	Not Scheduled
OZ2L-89			05/19/1998	/ /	11	Not Scheduled	Not Scheduled
	O-ISIL-116C-2.1	Not Scheduled	Not Scheduled	/ /	11	Not Scheduled	Not Scheduled
OZ2L-90	O-ISIL-116C-2.1	Not Scheduled	Not Scheduled	11	11	Not Scheduled	Not Scheduled
OZ2L-91	O-ISIL-116C-2.1	Not Scheduled	Not Scheduled	11	//	Not Scheduled	Not Scheduled
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11.5 Reportable Indications:

None