

INSERVICE INSPECTION REPORT

UNIT 1 OCONEE 1994 REFUELING
OUTAGE 15

Location: Hwy 130/183, Seneca, South Carolina 29679

NRC Docket No. 50-287

Commercial Service Date: July 15, 1973

Owner: Duke Power Company
526 South Church St.
Charlotte, N. C. 28201-1006

Revision 0

Prepared By:

R. A. Rouse

Date

8/15/94

Reviewed By:

J. M. Boughman

Date

8/15/94

Approved By:

G. Barbiero

Date

8/16/94

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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTION S

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Power Company, 422 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)
2. Plant: Oconee Nuclear Station, Highway 130/183, Seneca, SC 29679
(Name and Address of Plant)
3. Plant Unit: 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: July 15, 1973 6. National Board Number for Unit N/A
7. Components Inspected:

[illegible]

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 2/6/93 to 7/13/94 9. Inspection Interval from 7/15/83 to 7/15/94
 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See attached report.
 11. Abstract of Conditions Noted. See attached report.
 12. Abstract of Corrective Measures Recommended and Taken. See attached report.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date 8/16 19 94 Signed Duke Power Co. By Jo Barbour
 Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of N. C. and employed by *The HSBI&I Co. of Hartford, Cn. have inspected the components described in this Owners Data Report during the period 2-6-93 to 7-13-94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 8-30 19 94

M.B. Chapman
 Inspector's Signature

Commissions NC 914

National Board, State, Province and No.

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

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L. A. Wiens
Office of NRR
USNRC
Washington, DC 20555

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1.0 General Information

This report describes the Inservice Inspection of Duke Power Company's Oconee Nuclear Station, Unit 1, during the 1994 Refueling Outage (also referred to as Outage 15). Outage 15 is in the Third Inspection Period of the Second Ten Year Interval and is the last refueling outage for the second 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 February 6, 1993.

1.1 Identification Numbers

<u>Item</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Reactor Vessel	Babcock & Wilcox	620-0009-51-52	N/A	N-125
Steam Generator A	Babcock & Wilcox	620-0009-55-1	N/A	N-127
Steam Generator B	Babcock & Wilcox	620-0009-55	N/A	N-128
Pressurizer	Babcock & Wilcox	620-0009-59	N/A	N-126

1.2 Authorized Nuclear Inservice Inspector(s)

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 Summary of Inservice Inspection for Outage 15

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during Outage 15 at Oconee Nuclear Station Unit 1.

2.1 *Class 1 Inspection*

Examination Category B-A Pressure Retaining Welds in Reactor Vessel

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
B01.010	<i>Shell Welds</i>		
B01.011	Circumferential	0	0
B01.012	Longitudinal	0	0
B01.020	<i>Head Welds</i>		
B01.021	Circumferential	0	0
B01.022	Meridional Welds	0	0
B01.030	<i>Shell to Flange Welds</i>	† 1	1
B01.040	<i>Head to Flange Welds</i>	0	0
B01.050	<i>Repair Welds</i>		
B01.051	Beltline Region	N/A	N/A
TOTALS		1	1

† Weld 1RPV-WR19 was previously examined during Outage 14 (12/15/92); however, Duke failed to obtain at least 90% examination coverage and Request for Relief 93-01 was submitted to the NRC. This request was denied by the NRC based on the fact that Duke is capable of obtaining the required amount of examination coverage using supplemental techniques or scans. Weld 1RPV-WR19 was re-examined during Outage 15 in order to increase the examination coverage.

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

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

Examination Category B-D

Full Penetration Welds of Nozzles in Vessels
Inspection Program B

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

Examination Category B-E

Pressure Retaining Partial Penetration Welds
in Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
B04.010	<i>Partial Penetration Welds</i>		
B04.011	Vessel Nozzles	NA	NA
B04.012	Control Rod Drive Nozzles	0	0
B04.013	Instrumentation Nozzles	0	0
	<i>Pressurizer</i>		
B04.020	Heater Penetration Welds	NA	NA
TOTALS		0	0

Examination Category B-F

Pressure Retaining Dissimilar Metal Welds

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Reactor Vessel</i>		
B05.010	Nominal Pipe Size $\geq 4"$ Nozzle to Safe End Butt Welds	0	0
B05.011	Nominal Pipe Size $< 4"$ Nozzle to Safe End Butt Weld	NA	NA
B05.012	Nozzle to Safe End Socket Welds	NA	NA
	<i>Pressurizer</i>		
B05.020	Nominal Pipe Size $\geq 4"$ Nozzle to Safe End Butt Welds	0	0
B05.021	Nominal Pipe Size $< 4"$ Nozzle to Safe End Butt Weld	NA	NA
B05.022	Nozzle to Safe End Socket Welds	NA	NA
	<i>Steam Generators</i>		
B05.030	Nominal Pipe Size $\geq 4"$ Nozzle to Safe End Butt Welds	NA	NA
B05.031	Nominal Pipe Size $< 4"$ Nozzle to Safe End Butt Weld	NA	NA
B05.032	Nozzle to Safe End Socket Welds	NA	NA
	<i>Heat Exchangers</i>		
B05.040	Nominal Pipe Size $\geq 4"$ Nozzle to Safe End Butt Welds	NA	NA
B05.041	Nominal Pipe Size $< 4"$ Nozzle to Safe End Butt Weld	NA	NA
B05.042	Nozzle to Safe End Socket Welds	NA	NA

Examination Category B-F (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Piping</i>		
B05.050	Nominal Pipe Size $\geq 4"$ Dissimilar Metal Butt Welds	0	0
B05.051	Nominal Pipe Size $< 4"$ Dissimilar Metal Butt Welds	0	0
B05.052	Dissimilar Metal Socket Welds	NA	NA
TOTALS		0	0

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

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Reactor Vessel</i>		
B06.010	Closure Head Nuts	0	0
B06.020	Closure Studs (in place)	NA	NA
B06.030	Closure Studs, (when removed)	0	0
B06.040	Threads in Flange	1	1
B06.050	Closure Washers, Bushings	0	0
	<i>Pressurizer</i>		
B06.060	Bolts and Studs	0	0
B06.070	Flange Surface (when connection disassembled)	1	0 (connection not disassembled)
B06.080	Nuts, Bushings and Washers	0	0

Examination Category B-G-1 (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Steam Generators</i>		
B06.090	Bolts and Studs	NA	NA
B06.100	Flange Surface (when connection disassembled)	NA	NA
B06.110	Nuts , Bushings and Washers	NA	NA
	<i>Heat Exchangers</i>		
B06.120	Bolts and Studs	NA	NA
B06.130	Flange Surface (when connection disassembled)	NA	NA
B06.140	Nuts , Bushings and Washers	NA	NA
	<i>Piping</i>		
B06.150	Bolts and Studs	NA	NA
B06.160	Flange Surface (when connection disassembled)	NA	NA
B06.170	Nuts , Bushings and Washers	NA	NA
	<i>Pumps</i>		
B06.180	Bolts and Studs	0	0
B06.190	Flange Surface (when connection disassembled)	4	0 (connection not disassembled)
B06.200	Nuts , Bushings and Washers	0	0
	<i>Valves</i>		
B06.210	Bolts and Studs	NA	NA
B06.220	Flange Surface (when connection disassembled)	NA	NA

Examination Category B-G-1 (Continued)

B06.230	Nuts , Bushings and Washers	NA	NA
TOTALS		5	0

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

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

Examination Category B-H Integral Attachments for Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Reactor Vessel</i>		
B08.010	Integrally Welded Attachments	0	0
	<i>Pressurizer</i>		
B08.020	Integrally Welded Attachments	0	0
	<i>Steam Generators</i>		
B08.030	Integrally Welded Attachments	0	0
	<i>Heat Exchangers</i>		
B08.040	Integrally Welded Attachments	NA	NA
TOTALS		0	0

Examination Category B-J Pressure Retaining Welds in Piping

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
B09.010	Nominal Pipe Size $\geq 4"$		
B09.011	Circumferential Welds	1	1
B09.012	Longitudinal Welds ^{††}	0	0
B09.020	Nominal Pipe Size $< 4"$		
B09.021	Circumferential Welds	0	0
B09.022	Longitudinal Welds ^{††}	NA	NA
B09.030	Branch Pipe Connection Welds		

^{††} Longitudinal welds that intersect circumferential welds are examined as required by Table IWB 2500-1, Category B-J. However, for reporting purposes, the totals do not reflect the number of longitudinal welds examined during this outage.

Examination Category B-J (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
B09.031	Nominal Pipe Size $\geq 4"$	0	0
B09.032	Nominal Pipe Size $< 4"$	0	0
B09.040	Socket Welds	0	0
TOTALS		1	1

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

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Piping</i>		
B10.010	Integrally Welded Attachments	0	0
	<i>Pumps</i>		
B10.020	Integrally Welded Attachments	0	0
	<i>Valves</i>		
B10.030	Integrally Welded Attachments	NA	NA
TOTALS		0	0

Examination Category B-L-1, B-M-1 Pressure Retaining Welds in Pump
Casings and Valve Bodies
B-L-2, B-M-2 Pump Casings and Valve Bodies

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Pumps</i>		
B12.010	Pump Casing Welds	1	0 (connection not disassembled, reference Request for Relief ONS-015)
B12.020	Pump Casing	1	0 (connection not disassembled, reference Request for Relief ONS-015)
B12.030	Valves, Nominal Pipe Size <4" Valve Body Welds	NA	NA
B12.031	Valves, Nominal Pipe Size ≥4" Valve Body Welds	NA	NA
B12.040	Valve Body, Exceeding 4" Nominal Pipe Size	0	0
TOTALS		2	0

Examination Category B-N-1 Interior of Reactor Vessel
B-N-2 Integrally Welded Core Support Structures
and Interior Attachments to Reactor Vessels
B-N-3 Removable Core Support Structures

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Reactor Vessel</i>		
B13.010	Vessel Interior	0	0
	<i>Reactor Vessel (BWR)</i>		
B13.020	Interior Attachments	NA	NA
B13.021	Core Support Structure	NA	NA
	<i>Reactor Vessel (PWR)</i>		
B13.030	Core Support Structure	0	0
TOTALS		0	0

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

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

Examination Category B-P All Pressure Retaining Components

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Reactor Vessel</i>		
B15.010	Pressure Retaining Boundary	1	1
B15.011	Pressure Retaining Boundary	0	0
	<i>Pressurizer</i>		
B15.020	Pressure Retaining Boundary	1	1
B15.021	Pressure Retaining Boundary	0	0
	<i>Steam Generators</i>		
B15.030	Pressure Retaining Boundary	2	2
B15.031	Pressure Retaining Boundary	0	0
	<i>Heat Exchangers</i>		
B15.040	Pressure Retaining Boundary	2	2
B15.041	Pressure Retaining Boundary	0	0
	<i>Piping</i>		
B15.050	Pressure Retaining Boundary	9	9

Examination Category B-P (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
B15.051	Pressure Retaining Boundary	1	1
	<i>Pumps</i>		
B15.060	Pressure Retaining Boundary	4	4
B15.061	Pressure Retaining Boundary	0	0
	<i>Valves</i>		
B15.070	Pressure Retaining Boundary	Covered in B15.050	Covered in B15.050
B15.071	Pressure Retaining Boundary	Covered in B15.051	Covered in B15.051
TOTALS		20	20

Examination Category B-Q Steam Generator Tubing

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

††† Steam Generator Tubing is examined and documented by the Diversified Services Group of the Generation Services Department as required by the Station Technical Specifications and is not included in this report.

F1.1 Component Supports

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
F1.01	Reference Section 4.0 of this report	0	0
TOTALS		0	0

2.2 Class 2 Inspections

Examination Category C-A Pressure Retaining Welds in Pressure Vessel

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

Examination Category C-B Pressure Retaining Nozzle Welds in Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
C02.010	Nozzles in Vessels $\leq 1/2$ " Nominal Thickness	0	0
C02.020	Nozzles in Vessels $> 1/2$ " Nominal Thickness	NA	NA

Examination Category C-B (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
C02.021	Nozzle to Shell (or Head Welds)	0	0
C02.022	Nozzle Inside Radius Section	0	0
TOTALS		0	0

Examination Category C-C Pressure Retaining Nozzle Welds in Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Pressure Vessels</i>		
C03.010	Integrally Welded Attachments	0	0
	<i>Piping</i>		
C03.040	Integrally Welded Attachments	0	0
	<i>Pumps</i>		
C03.070	Integrally Welded Attachments	NA	NA
	<i>Valves</i>		
C03.100	Integrally Welded Attachments	NA	NA
TOTALS		0	0

Examination Category C-D

Pressure Retaining Bolting Greater Than 2" in Diameter

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

Examination Category C-F

Pressure Retaining Welds in Piping

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
C05.010	Piping Welds $\leq 1/2"$ Nominal Wall Thickness		
C05.011	Circumferential Weld	0	0
C05.012	Longitudinal Welds ††††	0	0
C05.020	Piping Welds $> 1/2"$ Nominal Wall Thickness		
C05.021	Circumferential Welds	0	0
C05.022	Longitudinal Welds ††††	0	0
C05.030	Pipe Branch Connections		
C05.031	Circumferential Welds	0	0
C05.032	Longitudinal Welds ††††	0	0
TOTALS		0	0

†††† Longitudinal welds that intersect circumferential welds were examined as required by Table IWC 2500-1, Category C-F. However, for reporting purposes, the totals do not reflect the number of longitudinal welds examined during this outage.

Examination Category C-G

Pressure Retaining Welds in Pumps and Valves

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

Examination Category C-H

All Pressure Retaining Components

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
	<i>Pressure Vessel</i>		
C07.010	Pressure Retaining Boundary	0	0
C07.011	Pressure Retaining Boundary	0	0
	<i>Piping</i>		
C07.020	Pressure Retaining Boundary	3	3
C07.021	Pressure Retaining Boundary	9	9
	<i>Pumps</i>		
C07.030	Pressure Retaining Boundary	2	2
C07.031	Pressure Retaining Boundary	2	2
	<i>Valves</i>		
C07.040	Pressure Retaining Boundary	Covered in C07.020	Covered in C07.020
C07.041	Pressure Retaining Boundary	Covered in C07.021	Covered in C07.021
TOTALS		16	16

F1.2 Component Supports

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
F1.02	Reference Section 4.0 of this report	1	1
TOTALS		1	1

2.3 Augmented Inspections

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
E01.001	Reactor Coolant Pump Flywheel	4	0 (connection not disassembled)
E02.001	Steam Generator Tube Examinations	Ref. footnote for Item No. B16.010	Ref. footnote for Item No. B16.010
E03.001	Alternate Examinations	0	0
E04.001	HPI Safe End Examinations	0	0
E05.001	Augmented Pressurizer Surge Line Examinations	0	0
E06.001	Augmented Weld Inspection	0	0
E07.001	Thermal Stress Piping (NRC Bulletin 88-08)	0	0
E08.001	Pressurizer Spray Piping Thermal Transient Inspection (Ref. PIR 1-O89-0003)	0	0
E09.001	Auxiliary Feedwater Header Water Hammer Examinations (PSC21-82)	0	0

Augmented Inspections (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Scheduled During Outage</i>	<i>Total Examined During Outage</i>
E10.001	Pressurizer Sensing/ Sampling Nozzle Safe Ends	0	0
TOTALS		4	0

A detailed description of each examination listed in Sections 2.1 through 2.3 are located in Section 3 of this report. Results of each examination are located in Section 4 of this report.

3.0 Second Ten Year Inspection Status

The completion status of inspections required by the 1980 ASME Section XI Code, including Addenda through Winter 1980, 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

<u>Examination Category</u>	<u>Description</u>	<u>Inspections Required</u>	<u>Inspections Completed</u>	<u>Percentage Completed</u>	<u>‡ Deferral Allowed</u>
B-A	Pressure Retaining Welds in Reactor Vessel	14 Welds	14 Welds	100%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	15 Welds	15 Welds	100%	No
B-D	Full Penetration Welds of Nozzles in Vessels	60 Inspections	60 Inspections	100%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	31 Welds	31 Welds	100%	No
B-F	Pressure Retaining Dissimilar Metal Welds	38 Welds	38 Welds	100%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	420 Items	420 Items	100%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	39 Connections	39 Connections	100%	No
B-H	Integral Attachment for Vessels	12 Attachments	12 Attachments	100%	No
B-J	Pressure Retaining Welds in Piping	120 Welds	120 Welds	100%	No

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

Class 1 Inspections (Continued)

<u>Examination Category</u>	<u>Description</u>	<u>Inspections Required</u>	<u>Inspections Completed</u>	<u>Percentage Completed</u>	<u>‡ Deferral Allowed</u>
B-K-1	Integral Attachments for Piping, Pumps and Valves	3 Attachments	3 Attachments	100%	No
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	None	N/A	N/A	N/A
B-M-2	Valve Body > 4 in. Nominal Pipe Size	2 Valves	2 Valves	100%	Yes
B-N-1	Interior of Reactor Vessel	3 Items	3 Items	100%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	None	N/A	N/A	N/A
B-N-3	Removable Core Support Structures	1 Item	1 Item	100%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	3 Housings	3 Housings	100%	Yes
B-P	All Pressure Retaining Components				No
	System Leakage Test	134 Components	134 Components	100%	
	System Hydrostatic Test	19 Components	19 Components	100%	
B-Q	Steam Generator Tubing	As stated in Station Technical Specifications	100% Station Technical Specifications Met		N/A
F1.01	Class 1 Component Supports	91 Supports	91 Supports	100%	No

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

Class 2 Inspections

<u>Examination Category</u>	<u>Description</u>	<u>Inspections Required</u>	<u>Inspections Completed</u>	<u>Percentage Completed</u>	<u>‡ Deferral Allowed</u>
C-A	Pressure Retaining Welds in Pressure Vessels	10 Welds	10 Welds	100%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	5 Welds	5 Welds	100%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	63 Attachments	63 Attachments	100%	No
C-D	Pressure Retaining Bolting Exceeding 2 Inches in Diameter	1 Item	1 Item	100%	No
C-F	Pressure Retaining Welds in Piping	251 Welds	251 Welds	100%	No
C-G	Pressure Retaining Welds in Pumps and Valves	None	N/A	N/A	N/A
C-H	All Pressure Retaining Components				No
	System or Component Functional Test	34 Components	34 Components	100%	
	System Hydrostatic Test	55 Components	55 Components	100%	
F1.02	Class 2 Component Supports	310 Supports	310 Supports	100%	No

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

Augmented Inspections

<u>Description</u>	<u>Percentage Complete</u>
Reactor Coolant Pump Flywheels	100% of Technical Specifications met
High Pressure Injection Nozzle Safe-Ends	100% of requirements
Pressurizer Surge Piping Drain Nozzle	100% of requirements
Thermal Stress Piping	100% of requirements
Pressurizer Spray Piping Thermal Transient	100% of requirements
Auxiliary Feedwater Heater (PSC-21-82) Water Hammer Examinations	100% of requirements

Alternate Inspections

<u>Description</u>	<u>Percentage Complete</u>
Main Feedwater Integrally - Welded Attachment (Item Number C03.040.038)	100% of requirements
Pressurizer Relief Valve Welds (Item Numbers E03.001.001 & E03.001.002)	100% of requirements

4.0 Final Inservice Inspection Plan For Outage 15

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 15 at Oconee Nuclear Station Unit 1.

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

A. Items examined by NDE methods

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
Drawing Number	=	Location and/or Detail Drawing
Locs.	=	Location
Insp. Req.	=	Examination Technique - Magnetic Particle, Dye Penetrant, etc.
Proc. Numbers	=	Examination Procedures
Material Type/Grade	=	General Description of Material
Diam./Thick	=	Diameter/Thickness
Calib. Block	=	Calibration Block Number
Comments	=	General and/or Detail Description

PROGRAM: NISIRUMB-QAISIO2
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B01

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAH./ THICK	CALIB BLOCK	COMMENTS
301.030.001A	IRPV-WR19	OM-201-1877 ISI-OCN1-001	=====	UT	NDE-650	CS	12.000	50304	PC.7 TO 8,0-180 DEG.FROM FLG. SURF. SUPPLEMENTAL EXAMINATION B&W REPORT 1183505A-0
301.030.001B	IRPV-WR19	OM-201-1877 ISI-OCN1-001	=====	UT	NDE-650	CS	12.000	50304	PC. 7 TO 8, 180-360 DEG. FROM FLG. SURF. B&W REPORT 1183505A-0 SUPPLEMENTAL EXAMINATION

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B06

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
806.040.001	IRPV LIGAMENTS	OM 201-1007		UT	NDE-640	CS	12.500	40387	THREADS IN REACTOR VESSEL FLANGE 0 TO 180 DEGREES SUPPLEMENTAL EXAMINATION
806.040.001A	IRPV LIGAMENTS	OM 201-1007		UT	NDE-640	CS	12.500	40387	THREADS IN REACTOR VESSEL FLANGE 180 TO 360 DEGREES SUPPLEMENTAL EXAMINATION

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B07

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
807.080.001	1RPV CRD-BOLTS	DPS 706599-1056 OM-201-2248	_____	VT1	QAL-13	CS	_____.____	-----	8 BOLTS PER CRD HOUSING REQUEST FOR RELIEF ONS-0012 2 CONN. INSP. TO DATE, #38,59 CONN. #59 INSP. RFO 13
807.080.002	1RPV CRD-RINGS	DPS 706599-1056 OM-201-2248	_____	VT1	QAL-13	CS	_____.____	-----	1 PAIR PER CRD HOUSING REQUEST FOR RELIEF ONS-0012 2 INSP. INSP. TO DATE, #38, #59 CONN # 59 INSP. RFO 13

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B09

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QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
309.011.118	1PSL-7	ISI-OCN1-015		UT	NDE-600	SS	10.75 01.000	40399	SELECTION CRITERIA 4.2.1
309.011.118A	1PSL-7	ISI OCN1-015		PT	NDE-35	SS	10.75 01.000		SELECTION CRITERIA 4.2.1

PROGRAM: NISIRUN3-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER E01

DUKE POWER COMPANY
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E01.001.001	1RCP-1A1	OM-201D-38	_____	UT	NDE-900	CS	72.00 09.500	-----	RC PUMP 1A1 FLYWHEEL
E01.001.002	1RCP-1A2	OM-201D-38	_____	UT	ISI-117 NDE-900	CS	72.00 09.500	-----	RC PUMP 1A2 FLYWHEEL
E01.001.003	1RCP-1B1	OM-201D-38	_____	UT	ISI-117 NDE-900	CS	72.00 09.500	-----	RC PUMP 1B1 FLYWHEEL
E01.001.004	1RCP-1B2	OM-201D-38	_____	UT	ISI-117 NDE-900	CS	72.00 09.500	-----	RC PUMP 1B2 FLYWHEEL

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER F1.

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.368	1-53B-DE067	0-435B		VT	QAL-14	-----	14.00	-----	DECAY HEAT - SWAY STRUT 1-53B-0-435B-DE067 MONITOR DURING RFO #15 EXAM. RFO 15
F1.03.161	1-03A-H23	0-439A		VT	QAL-14	-----	06.00	-----	EMER. FDWTR. B - RIGID 1-03A-1-0-439A-H23

B. Items examined by Pressure Testing

Item Number	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2)
Drawing Number	=	Number of the Flow Diagram
Revision	=	Revision of the Flow Diagram
Test	=	Type of Pressure Test
Comp	=	Vessel, Piping or Pump
Comp Name	=	Example: Reactor Vessel, etc.; for piping - System designation will be used
Req. Insp.	=	Type inspection performed, i.e., VT2
Req. Proc	=	Required inspection procedure
Comments	=	General and/or Detail Description

OCONEE UNIT NUMBER 1
CLASS A (CATEGORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 15

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC	COMMENTS
B15.010.001	OFD-100A-1.1	12	LEAK	VESSEL	UNIT 1 REACTOR	VT-2	QAL-15	
B15.020.001	OFD-100A-1.2	08	LEAK	VESSEL	PRESSURIZER	VT-2	QAL-15	
B15.030.001	OFD-100A-1.1	12	LEAK	VESSEL	STEAM GENERATOR 1A	VT-2	QAL-15	
B15.030.002	OFD-100A-1.1	12	LEAK	VESSEL	STEAM GENERATOR 1B	VT-2	QAL-15	
B15.040.001	OFD-101A-1.1	17	LEAK	VESSEL	LETDOWN COOLER 1A	VT-2	QAL-15	
B15.040.002	OFD-101A-1.1	17	LEAK	VESSEL	LETDOWN COOLER 1B	VT-2	QAL-15	
B15.050.001	OFD-100A-1.1	12	LEAK	PIPING	RC SYSTEM	VT-2	QAL-15	
B15.050.001A	OFD-100A-1.2	08	LEAK	PIPING	RC SYSTEM	VT-2	QAL-15	
B15.050.002	OFD-101A-1.1	17	LEAK	PIPING	HPI SYSTEM	VT-2	QAL-15	
B15.050.003	OFD-101A-1.4	16	LEAK	PIPING	HPI SYSTEM	VT-2	QAL-15	
B15.050.004	OFD-102A-1.1	20	LEAK	PIPING	LPI SYSTEM	VT-2	QAL-15	
B15.050.005	OFD-102A-1.2	14	LEAK	PIPING	LPI SYSTEM	VT-2	QAL-15	
B15.050.006	OFD-102A-1.3	10	LEAK	PIPING	LPI SYSTEM	VT-2	QAL-15	
B15.050.007	OFD-110A-1.1	15	LEAK	PIPING	CA SYSTEM	VT-2	QAL-15	
B15.050.009	OFD-110A-1.4	03	LEAK	PIPING	CA SYSTEM	VT-2	QAL-15	
B15.051.004	OFD-102A-1.1	11	HYDRO	PIPING	LPI SYSTEM	VT-2	QAL-15	
B15.060.001	OFD-100A-1.1	12	LEAK	PUMP	RCP-1A1	VT-2	QAL-15	

OCONEE UNIT NUMBER 1
CLASS A (CATEGORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 15

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC	COMMENTS
B15.060.002	OFD-100A-1.1	12	LEAK	PUMP	RCP-1A2	VT-2	QAL-15	
B15.060.003	OFD-100A-1.1	12	LEAK	PUMP	RCP-1B1	VT-2	QAL-15	
B15.060.004	OFD-100A-1.1	12	LEAK	PUMP	RCP-1B2	VT-2	QAL-15	

OCONEE UNIT NUMBER 1
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 15

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC	COMMENTS
C07.020.002	OFD-102A-1.2	14	LEAK	PIPING	LPI SYSTEM	VT-2	QAL-15	
C07.020.003	OFD-104A-1.2	05	LEAK	PIPING	SF SYSTEM	VT-2	QAL-15	
C07.020.005	OFD-101A-1.2	09	LEAK	PIPING	HPI SYSTEM	VT-2	QAL-15	
C07.021.004	OFD-101A-1.2	09	HYDRO	PIPING	HPI SYSTEM	VT-2	QAL-15	
C07.021.005	OFD-101A-1.3	05	HYDRO	PIPING	HPI SYSTEM	VT-2	QAL-15	
C07.021.006	OFD-101A-1.4	16	HYDRO	PIPING	HPI SYSTEM	VT-2	QAL-15	
C07.021.009	OFD-102A-1.2	14	HYDRO	PIPING	LPI SYSTEM	VT-2	QAL-15	
C07.021.010	OFD-102A-1.3	10	HYDRO	PIPING	LPI SYSTEM	VT-2	QAL-15	
C07.021.012	OFD-104A-1.1	18	HYDRO	PIPING	SF SYSTEM	VT-2	QAL-15	
C07.021.024	OFD-121B-1.5	13	HYDRO	PIPING	FDW SYSTEM	VT-2	QAL-15	
C07.021.031	OFD-124B-1.2	08	HYDRO	PIPING	LPS SYSTEM	VT-2	QAL-15	
C07.021.033	OFD-127B-1.2	12	HYDRO	PIPING	N SYSTEM	VT-2	QAL-15	
C07.030.001	OFD-102A-1.2	14	LEAK	PUMP	LPI PUMP 1A	VT-2	QAL-15	
C07.030.002	OFD-102A-1.2	14	LEAK	PUMP	LPI PUMP 1B	VT-2	QAL-15	
C07.031.004	OFD-101A-1.3	05	HYDRO	PUMP	HPI PUMP 1A	VT-2	QAL-15	
C07.031.006	OFD-101A-1.3	05	HYDRO	PUMP	HPI PUMP 1C	VT-2	QAL-15	

5.0 Results Of Inspections Performed During Outage 15

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:

A. Items examined by NDE methods

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
Inspection Date	=	Date of Examination
Inspection Status	=	CLR Clear REC Recordable REP Reportable
Inspection Limited	=	<u>L</u> Limited _ No
Geo. Ref. (Geometric Reflector applies only to UT)	=	<u>Y</u> Yes <u>N</u> No
Comments	=	General and/or Detail Description

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B01

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEQ. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B01.030.001A	1RPV-WR19	05/06/94	CLR	-	Y	B&W REPORT 1183505A-0
B01.030.001B	1RPV-WR19	05/06/94	CLR	-	N	SUPPLEMENTAL EXAMINATION

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B06

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEQ. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B06.040.001	IRPV LIGAMENTS	05/06/94	CLR	-	-	SUPPLEMENTAL EXAMINATION
B06.040.001A	IRPV LIGAMENTS	05/06/94	CLR	-	N	SUPPLEMENTAL EXAMINATION

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B07

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QUALITY ASSURANCE DEPARTMENT
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEQ. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B07.080.001	1RPV CRD-BOLTS	05/25/94	CLR	-	N	CONN. #59 INSP. RFO 13
B07.080.002	1RPV CRD-RINGS	05/25/94	CLR	-	N	CONN # 59 INSP. RFO 13

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER B09

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEØ. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B09.011.118	1PSL-7	05/09/94	CLR	-	-	_____
B09.011.118A	1PSL-7	05/09/94	CLR	-	-	_____

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER E01

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
OCONEE UNIT 1 INSERVICE INSPECTION RESULTS RFO #15

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEQ. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
E01.001.001	1RCP-1A1	05/03/94	CLR	L	N	_____
E01.001.002	1RCP-1A2	05/03/94	CLR	L	N	_____
E01.001.003	1RCP-1B1	05/02/94	CLR	L	N	_____
E01.001.004	1RCP-1B2	05/10/94	CLR	L	N	_____

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: OCONEE UNIT 1
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
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OCONEE UNIT 1 INSERVICE INSPECTION RESULTS RFO #15

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEØ. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
F1.02.368	1-53B-DE067	04/18/94	CLR	-	-	EXAM. RFO 15
F1.03.161	1-03A-H23	04/25/94	CLR	L	-	_____

B. Items examined by Pressure Testing

Item Number	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2)
Drawing	=	Number of the Flow Diagram
Examination Date	=	Latest examination date
Condition	=	Partial or Complete test
Status	=	Clear, Recordable or Reportable
Comments	=	General and/or Detail Description

Note: Since this is the last outage of the second inservice inspection interval for Oconee Unit 1, some of the pressure test were performed after the start up of the unit. For this reason, some of the pressure testing data will reflect dates of examination after the Class A leakage tests.

OCONEE UNIT NUMBER 1
CLASS A (CATEGORY B-P) INSPECTION RESULTS
FOR OUTAGE NUMBER 15

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS	COMMENTS
B15.010.001	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	
B15.020.001	OFD-100A-1.2	06/22/94	COMPLETE	CLEAR	
B15.030.001	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	
B15.030.002	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	
B15.040.001	OFD-101A-1.1	06/22/94	COMPLETE	CLEAR	
B15.040.002	OFD-101A-1.1	06/22/94	COMPLETE	CLEAR	
B15.050.001	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	
B15.050.001A	OFD-100A-1.2	06/22/94	COMPLETE	CLEAR	
B15.050.002	OFD-101A-1.1	06/22/94	COMPLETE	CLEAR	
B15.050.003	OFD-101A-1.4	06/22/94	COMPLETE	CLEAR	
B15.050.004	OFD-102A-1.1	06/22/94	COMPLETE	CLEAR	
B15.050.005	OFD-102A-1.2	06/22/94	COMPLETE	CLEAR	
B15.050.006	OFD-102A-1.3	06/22/94	COMPLETE	CLEAR	
B15.050.007	OFD-110A-1.1	06/22/94	COMPLETE	CLEAR	
B15.050.009	OFD-110A-1.4	06/22/94	COMPLETE	CLEAR	
B15.051.004	OFD-102A-1.1	06/23/94	COMPLETE	CLEAR	
B15.060.001	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	

OCONEE UNIT NUMBER 1
CLASS A (CATEGORY B-P) INSPECTION RESULTS
FOR OUTAGE NUMBER 15

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS	COMMENTS
B15.060.002	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	
B15.060.003	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	
B15.060.004	OFD-100A-1.1	06/22/94	COMPLETE	CLEAR	

OCONEE UNIT NUMBER 1
CLASS B (CATEGORY C-H) INSPECTION RESULTS
FOR OUTAGE NUMBER 15

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS	COMMENTS
C07.020.002	OFD-102A-1.2	06/16/94	COMPLETE	CLEAR	
C07.020.003	OFD-104A-1.2	06/16/94	COMPLETE	CLEAR	
C07.020.005	OFD-101A-1.2	06/16/94	COMPLETE	CLEAR	
C07.021.004	OFD-101A-1.2	07/07/94	COMPLETE	CLEAR	
C07.021.005	OFD-101A-1.3	07/13/94	COMPLETE	RECORDABLE	
C07.021.006	OFD-101A-1.4	07/13/94	COMPLETE	RECORDABLE	
C07.021.009	OFD-102A-1.2	06/17/94	COMPLETE	RECORDABLE	
C07.021.010	OFD-102A-1.3	12/14/93	COMPLETE	CLEAR	
C07.021.012	OFD-104A-1.1	05/09/94	COMPLETE	CLEAR	
C07.021.024	OFD-121B-1.5	06/22/94	COMPLETE	RECORDABLE	
C07.021.031	OFD-124B-1.2	05/22/94	COMPLETE	CLEAR	
C07.021.033	OFD-127B-1.2	05/26/94	COMPLETE	CLEAR	
C07.030.001	OFD-102A-1.2	06/16/94	COMPLETE	CLEAR	
C07.030.002	OFD-102A-1.2	06/16/94	COMPLETE	CLEAR	
C07.031.004	OFD-101A-1.3	07/07/94	COMPLETE	CLEAR	
C07.031.006	OFD-101A-1.3	07/13/94	COMPLETE	CLEAR	

- 5.2 A copy of Request for Relief applicable for Outage 15 is contained in Section 9.0 of this report

<u>Item Number</u>	<u>Request for Relief Serial Number</u>
B12.010.002	ONS-015
B12.020.002	ONS-015
C07.021.005	92-09

6.0 Reportable Indications

There were no reportable indications during Outage 15.

7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from February 6, 1993 to July 13, 1994 at Oconee Nuclear Station, Unit 1, were certified in accordance with the requirements of 1980 Edition of ASME Section XI with Addenda through Winter 1980. The appropriate certification records for each Duke Power Company inspector are on file at Oconee Nuclear Station or copies can be obtained by contacting Duke Power's Corporate Office in Charlotte, North Carolina. The certification records for the Babcock & Wilcox inspectors are on file at the Babcock & Wilcox Offices in Lynchburg, Virginia.

Records of periodic calibration of Duke Power Company inspection equipment are on file at Oconee Nuclear Station or copies can be obtained by contacting Duke Power's Corporate Office in Charlotte, North Carolina. Records of periodic calibration of Babcock & Wilcox inspection equipment are on file at the Babcock & Wilcox Offices in Lynchburg, Virginia.

8.0 Corrective Action

No Problem Investigation reports resulting from reportable items, were originated during Outage 15.

9.0 Reference Documents

The following reference documents apply to the inservice inspection performed during Outage 15 at Oconee 1.

Duke Power Company Request for Relief ONS-015

Duke Power Company Request for Relief 92-09

Serial No. ONS-015

NPD Licensing Serial No. 91-03

Page 1 of 2

DUKE POWER COMPANY

**Request For Relief From
Inservice Inspection Requirement**

Station: Oconee

Unit: 1

Requesting Department: Quality Assurance, Inservice Inspection

Reference Code: 1980 ASME Section XI, Including addenda through Winter 1980

I. Component for which exemption is requested:

- a. **Name and Identification Number:** Reactor Coolant Pump 1A2 (Duke System No. 50).
- b. **Function:** The Reactor Coolant Pump recirculates primary (borated) coolant water from the Once Through Steam Generator (OTSG) in its respective loop to the reactor vessel.
- c. **ASME Code Class:** Section XI, Class 1
- d. **Construction Code Class:** N/A
- e. **Valve Category:** N/A

II. Reference Code Requirement that has been determined to be impractical:
ASME Boiler and Pressure Vessel Code Section XI, Article IWB 2420(A),
The sequence of Component Examinations, Items B12.010.002 and
B12.020.002.

- III. Basis for Requesting Relief:** Reactor Coolant Pump 1A2, Casing Welds and Casing, were last examined during the third period of the first inspection interval.

In order to examine these items, Casing Welds and Casing, it will require approximately 10,304 man-hours and approximately 30 person-rem to disassemble and reassemble the Reactor Coolant Pump.

In lieu of performing this examination at this time, we propose to defer the examination until such time that maintenance activities require disassembly of the Reactor Coolant Pump.

- IV. Alternate Examination:** Volumetric and visual examinations will be deferred to when maintenance activities require disassembly of the Reactor Coolant Pump.
- V. Implementation Schedule:** Use of this request for relief for the Unit 1 Refueling Outage 13 (August 1991) will defer scheduled inspections until the pump is disassembled for maintenance purposes. The Casing welds and Casing will be removed from the ISI plan for the upcoming Outage.

Duke Power Company
Oconee Nuclear Station
Second Ten Year Interval
Request for Relief #92-09

I. Component for which relief is requested:

- a) Name and Number: Piping and Welds between 1, 2, 3 HP-25 and 1, 2, 3 HP-102; piping and welds between 1, 2, 3 HP-24 and 1, 2, 3 HP-101.
- b) Function: Borated Water Storage Tank suction piping for HPI pumps.
- c) ASME/Duke/ISI Class:
ASME Class 2, Duke Class B, ISI Class B
- d) Drawings OFD 101A-1, 2, 3.3 and 102A-1, 2, 3.1

II. Reference code requirement that has been determined to be impractical.

IWC 5222(a) and Table IWC-2500-1, Category C-H, Item C7.21; IWC-2420(a)

III. Basis for requesting relief:

The piping on the upstream side of HP-24 and 25 is rated at 100 psig at 200° F. The piping downstream of HP-24 and 25 is rated at 350 psig at 200° F. Valves HP-101 and 102 are check valves. The HP-101 and 102 check valves make it impractical to perform the hydrostatic test with HP-24 and 25 closed and pressurizing from the downstream piping to HP-24 and 25. To pressurize the piping from the upstream direction with HP-24 and 25 open would cause overpressurization of the low pressure upstream piping. This request is to delay this test until the HP-101 and HP-102 valves can be disassembled.

IV. Alternate Examination:

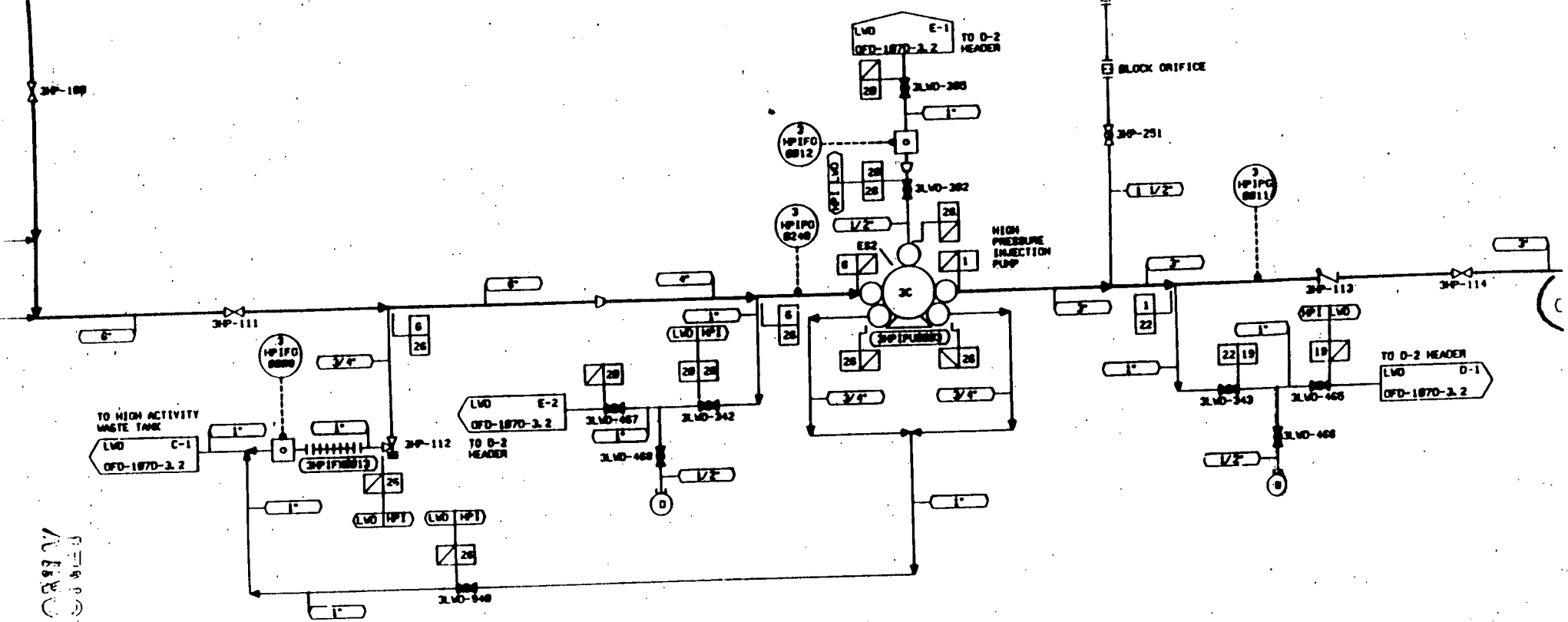
No alternate examinations are needed as this request for relief is only to delay the periodic ISI hydrostatic test to a later time. The welds associated with this request have not been changed since the previous pressure test was performed.

V. Acceptability of proposed alternate testing with respect to the level of quality and safety, as well as public health and safety:

The welds have been previously inspected and tested as required by ASME Section XI. This relief is only to delay the periodic ISI hydrostatic test until a time HP-101 and HP-102 can be disassembled. An acceptable level of quality and safety as well as public health and safety has been provided.

VI. Implementation schedule:

At the next refueling outage for each unit where disassembly of HP-101 and HP-102 is practical, but no later than the last refueling outage for each unit during the third period of the Second Inspection Interval, ending February 28, 1994.



DESIGN PARAMETERS

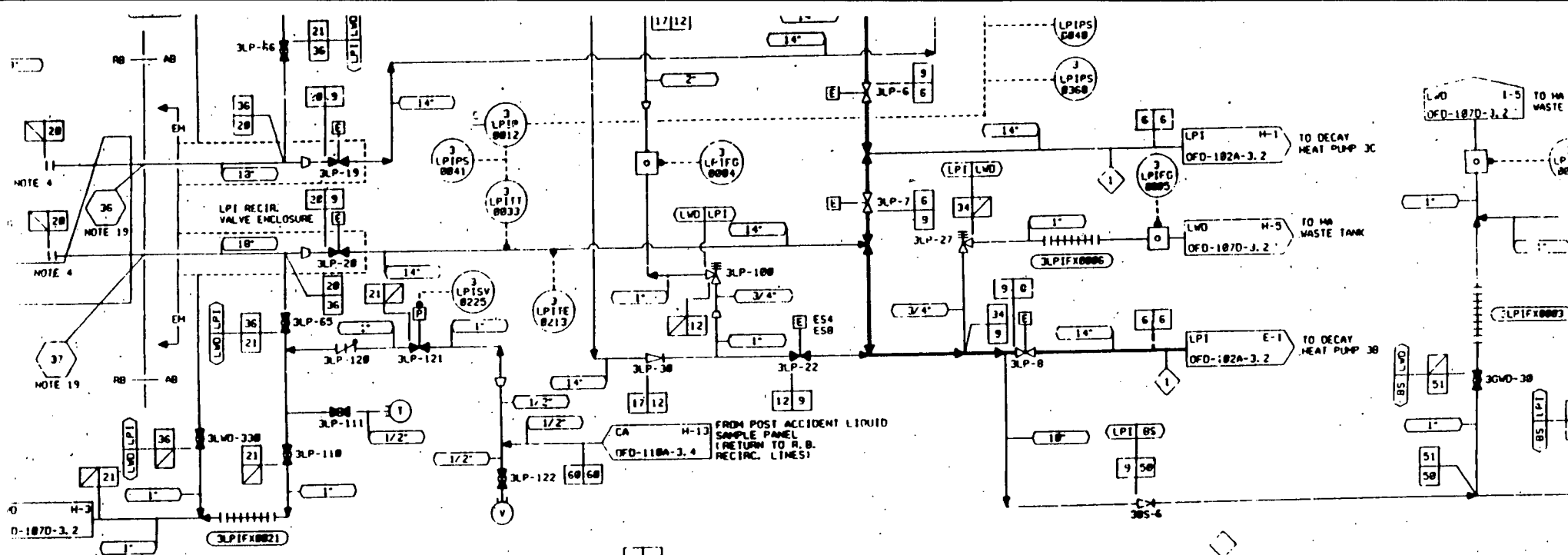


DESIGN FLOW

1 48 GPM

LINE NO.	ISI CLASS	DESIGN PRESS.	DESIGN TEMP.	DATE CLASS.	MATERIAL	PIPE SPEC. NO.	PIPE SCH. NO.
1	1	200	200	1	SS	150L-2	NOTE 2
2	1	200	200	1	SS	20L-2	NOTE 3
3	1	200	200	1	SS	15L-3	NOTE 4
4	1	200	200	1	SS	150L-4	NOTE 5
5	1	200	200	1	SS	20L-4	NOTE 6
6	1	200	200	1	SS	15L-5	NOTE 7
7	1	200	200	1	SS	150L-6	NOTE 8
8	1	200	200	1	SS	20L-6	NOTE 9
9	1	200	200	1	SS	15L-7	NOTE 10
10	1	200	200	1	SS	150L-8	NOTE 11
11	1	200	200	1	SS	20L-8	NOTE 12

REV	DESCRIPTION	DATE
1	REV FOR CNFR-3451	DEC 9-4
2	REV FOR CNFR-3451	DEC 9-4
3	REV FOR CNFR-3451	DEC 9-4
4	REV FOR CNFR-3451	DEC 9-4
5	REV FOR CNFR-3451	DEC 9-4
6	REV FOR CNFR-3451	DEC 9-4
7	REV FOR CNFR-3451	DEC 9-4
8	REV FOR CNFR-3451	DEC 9-4
9	REV FOR CNFR-3451	DEC 9-4
10	REV FOR CNFR-3451	DEC 9-4
11	REV FOR CNFR-3451	DEC 9-4
12	REV FOR CNFR-3451	DEC 9-4
13	REV FOR CNFR-3451	DEC 9-4
14	REV FOR CNFR-3451	DEC 9-4
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90	REV FOR CNFR-3451	DEC 9-4
91	REV FOR CNFR-3451	DEC 9-4
92	REV FOR CNFR-3451	DEC 9-4
93	REV FOR CNFR-3451	DEC 9-4
94	REV FOR CNFR-3451	DEC 9-4
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97	REV FOR CNFR-3451	DEC 9-4
98	REV FOR CNFR-3451	DEC 9-4
99	REV FOR CNFR-3451	DEC 9-4
100	REV FOR CNFR-3451	DEC 9-4



CONT'D

17. ORIFICE TO BE MADE BY DRILLING A 0.375" HOLE IN 12" PIPE AT THE HALF COUPLING CONNECTION.
18. HALF DESIGN PRESSURE AND TEMPERATURE WILL BE PER UPSTREAM LINE NO. CLASS PER DOWNSTREAM LINE NO.
19. FOR DETAILS OF PENETRATION SCHEDULE TRANSITION REFER TO Q-2439C
20. ORIGINAL ISSUE OF THIS Dwg. WAS BASED ON PO-1020-3, REV. 30
21. 12" SCH. 40
22. 3/4" SCH. 40

14

14

DESIGN PARAMETERS

LINE NO	DESIGN PRESS (PSIG)	DESIGN TEMP (°F)	DUNE CLASS	MATERIALS	PIPE SPEC NO	PIPE SCH NO	ISI CLASS
1	2500	600	A	SS	1501.1	NOTE 7	A
6	4700.505	3000.250	B	SS	301.2	NOTE 12	B
9	300	300	B	SS	301.2	NOTE 10	B
10	300	300	E	SS	301.4	NOTE 15	B
11	300	300	SS	SS	301.2	NOTE 8	B
12	200	300	C	SS	151.3	NOTE 16	B
15	150	300	E	SS	151.4	NOTE 8	B
17	100	200	C	SS	151.3	NOTE 8	B
20	BLOC	300	E	SS	151.2	NOTE 11	B
21	BLOC	300	E	SS	151.4	NOTE 8	B
34	300	300	BC	SS	301.3	NOTE 10	B
36	BLOC	300	BC	SS	151.3	NOTE 8	A
42	2500	300	B	SS	1501.2	NOTE 9	B
43	ATM	300	H	SS	151.4	NOTE 7	A
44	2500	300	C	SS	1501.2	NOTE 9	B
46	4700.505	3000.250	C	SS	1501.3	NOTE 14	B
48	300	300	BC	SS	301.2	NOTE 13	B
50	300	300	BC	SS	301.3	NOTE 13	B
51	300	300	E	SS	301.4	NOTE 14	B
52	4700.505	3000.250	E	SS	301.4	NOTE 8	C
55	ATM	200	C	SS	151.3	NOTE 8	C
57	ATM	150	C	SS	151.3	NOTE 8	C
58	ATM	150	E	SS	151.4	NOTE 21	B
60	2500	600	B	SS	1501.4	SCH. 100	B
67	2500	600	B	SS	1501.2	NOTE 21	B
68	300	300	B	SS	301.2	NOTE 22	B
69	300	300	BC	SS	301.3		B

DESIGN FLOW

NO.	FLOW
1	3000 GPM

NO.	REVISIONS	DATE	CHKD
14	REV. PER OE-4385	JMP 9-10-90	DCL
13	REV PER OE-3657, OE-3696, OE-3817	DCL 6-17-91	BMB
12	ORIGINAL DRAWING RETIRED		

10.0 Class 1 and 2 Repairs and Replacements

As required by ASME Section XI 1980 Edition, a record of the Class 1 and Class 2 Repairs and Replacements for work performed from February 6, 1993 through July 13, 1994 is provided and is included in this section of the report. The individual work request documents are on file at Oconee Nuclear Station.

REPAIR/REPLACEMENT LOG

ASME SECTION XI -1980

OCONEE NUCLEAR STATION

UNIT 1 RFO # 15

INTERVAL COVERED: FROM: 2-6-93

TO: 6-22-94

PREPARED BY: CR Henson DATE 6-27-94

REVIEWED BY: PHooker DATE 6-27-94

TRANSMITTED TO
QA MANAGER TECHNICAL SERVICES

BY: T.J. Coleman DATE 6-29-94

WORK ORDER	ASME CLASS	DESCRIPTION
92057662	2	Replaced flange bolting valve 1LP-61
92081089	2	Replaced pressure seal ring valve 1LP-17
92058000	2	Replaced bolting BWST manway
92097160	2	Replaced welds and bolting LPSW flex line to 1A2 RCP motor
92094094	1	Replaced bolting CRDM # 26
92094112	1	Replaced bolting CRDM # 43
92094092	1	Replaced bolting CRDM # 20
92094082	1	Replaced bolting CRDM # 19
92094135	1	Replaced bolting CRDM # 14
92094120	1	Replaced bolting CRDM # 63
92094105	1	Replaced bolting CRDM # 30
92057527	1	Replaced valve 1-RC-66
91078629	2	Replaced bolting Main FDW riser # 21 B OTSG
92080563	1	Replaced bolting on orifice flange between valves 1HP-188 and 1HP-152
92029475	2	Replaced bolting Auxillary FDW riser # 5 B OTSG
92094481	1	Replaced seal housing bolting RCP 1A2
92094747	1	Replaced bolting B OTSG lower primary handhole
92057952	1	Replaced seal housing bolting RCP 1B1
92064736	2	Replaced body/bonnet bolting valve 1MS-26
92057807	1	Replaced valve 1RC-67

WORK ORDER	ASME CLASS	DESCRIPTION
92057809	1	Replaced valve 1RC-68
92058047	1	Replaced body/bonnet nut valve 1HP-126
93000044	2	Replaced disc valve 1FDW-103
93000515	2	Replaced bolting 1A OTSG lower secondary handhole # 4
91085653	2	Replaced body/bonnet nuts 1LPSW-566
92079336	1	Replaced bonnet and seal ring valve 1CF-14
92094902	2	Replaced body/bonnet bolting valve 1FDW-32
92098284	2	Replaced bolting 1A LPI cooler inlet and outlet flanges
94026106	1	Plug/Stabilize tubes 1A OTSG
94026107	1	Plug/Stabilize tubes 1B OTSG
94016667	2	Replaced bolting inlet & outlet flanges valve 1-FDW-317
92097160	2	Repaired piping leak LPSW to RCP motor
92073195	2	Repaired disc valve 1-PR-1
91078629	2	Base metal repair 1B OTSG MFDW header flange # 21
92029475	2	Base metal repair 1B OTSG AFDW header flange # 5
92048801	1	Repaired tube to tubesheet weld spare letdown cooler SR # 34097-01
94017245	2	Replaced valve 1-BS-16
94016396	2	Replaced valve 1-BS-11
94023165	2	Replaced valve 1-HP-364

WORK ORDER	ASME CLASS	DESCRIPTION
92094600	2	Replaced valve 1-LP-30
91089057	1	Installed chemical connectors on spare letdown cooler SR # 34097-1
94037212	2	Seal welded body to bonnet valve 1-HP-147
94014512	2	Replaced valve 1-FDW-207
94014716	2	Replaced valve 1-FDW-206
94014481	2	Replaced valve 1-FDW-143
94015205	2	Replaced valve 1-FDW-209
94014504	2	Replaced valve 1-FDW-208
94014503	2	Replaced valve 1-FDW-141
94014490	2	Replaced valve 1-FDW-142
94014428	2	Replaced valve 1-FDW-144
94023167	2	Replaced valve 1-HP-393
94023176	1	Replaced valve 1-LP-46
94023175	2	Replaced valve 1-HP-21
94016667	2	Replaced valve 1-FDW-317
94017978	2	Replaced valve 1-HP-102
94017945	2	Replaced valve 1-HP-101
94018802	2	Replaced valve 1-CCW-105
93087070	2	Replaced RBCU cooling coils
93078802	2	Removed N-16 tank from HPI system
94040344	2	Installed 4 flanges 1A LPI cooler piping

WORK ORDER	ASME CLASS	DESCRIPTION
93070693	2	Replaced 4 flanges 1A LPI cooler piping
94024559	2	Removed and installed 1A LPI cooler channel head
94039885	2	Permanently installed pipe caps to hydro welds on CFT drains
94009374	1	Replaced valve 1-HP-4
94009371	1	Replaced valve 1-HP-3
93003093	UNKNOWN	Replaced S/R 1-05B-2-0-410G-H108
92094415	UNKNOWN	Replaced snubber S/R 1-50-0-66A-RCPM-S6
93004495	UNKNOWN	Replaced hydraulic snubber reservoir S/R 1-57-0-481A-H17
93000970	UNKNOWN	Replaced U-bolt and item 1 on S/R 1-01A-1-2-0-401A-H49
93017800	UNKNOWN	Replaced hydraulic snubber S/R 1-o3A-1-0-438B-SR63
93029343	UNKNOWN	Modified S/R 1-64-439D-H5596
93028409	UNKNOWN	Replaced snubber seals S/R 1-01A-4-1-0-403C-R6
93024155	UNKNOWN	Modified S/R'S: 1-14B-437A-DE040 1-14B-1-0-439B-SR43 1-14B-0-439B-SR42 1-14B-439B-DE007 1-14B-0-439B-DE138 1-14B-0-439B-DE136 1-GH-QR-6667-03 1-14B-0-439B-SR47 1-14B-437A-DE039
93024155	UNKNOWN	Modified S/R 1-14B-437A-DE037

WORK ORDER	ASME CLASS	DESCRIPTION
93079710	UNKNOWN	Replaced bolting S/R 1-01A-1-1-0-401A-H38
94020867	UNKNOWN	Rebuilt snubber S/R 1-01A-1-1-0-401A-H40
94021269	UNKNOWN	Modified S/R 1-51A-437A-DE0041
94024907	UNKNOWN	Installed new S/R'S: 1-53-479A-H6432 1-53-479A-H6433 1-53-479A-H6437
94024907	UNKNOWN	Removed and replaced S/R 1-53-479D-H6426
93078802	UNKNOWN	Installed new S/R'S: 1-51A-478A-H6476 1-59-478A-H6477 1-51A-0-478A-H11C
93078802	UNKNOWN	Modified S/R 1-51A-478A-H6227
93078802	UNKNOWN	Permanently removed S/R 1-51A-0-478A-GPD-0009
94024907	UNKNOWN	Permanently removed S/R 1-53-479A-H6430
94039114	UNKNOWN	Replaced S/R 1-57-422-H6342
94040344	UNKNOWN	Modified S/R 1-53B-5-0-436D-H23
94040584	UNKNOWN	Modified S/R 1-04A-2-0-439C-R13
94043775	UNKNOWN	Modified S/R 1-53A-0-478A-H8A
94014818	UNKNOWN	Modified S/R'S: 1-14B-435J-H5188 1-GH-RS-7172-05 1-GH-RS-7273-05 1-GH-RS-7172-04