220 Pages

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Power Company, 526 S. Church St., Charlotte, N.C. 28201-1006
(Name and Address of Owner)

2. Plant: McGuire Nuclear Station, Highway 73, Cowans Ford, N. C. 28216
(Name and Address of Plant)

3. Plant Unit: 2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date: March 1, 1984 6. National Board Number for Unit 84

7. Components Inspected:

Component or Appurentance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Providence No.	National Board No.
SEE SECTION 1 PARAGRAPH 1.1 IN THE ATTACHED REPORT				

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

220 Pages

FORM NIS-1 (back)

8. Examination Dates 3/14/92 to 8/30/93 9. Inspection Interval from 3/1/84 to 3/1/94

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 11/18 19 93 Signed Duke Power Co. By J. 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 NC and employed by *The HSBI&I Co. of Hartford, Conn. have inspected the components described in this Owners Data Report during the period 03/14/92 to 08/30/93 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 12-1-93 19 93

J. H. Klein Commissions NB7728, NC853, A-N-I
Inspector's Signature National Board, State, Province and No.

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

INSERVICE INSPECTION REPORT

UNIT 2 MCGUIRE 1993 REFUELING OUTAGE 8

Location: Hwy 73, Cowans Ford, North Carolina 28216

National Board No. 84

Commercial Service Date: March 1, 1984

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

Revision 0

Prepared By: Gary J. Underwood Date 11/17/93

Reviewed By: R. G. Hogge, Jr Date 11/17/93

Approved By: J. Barhower Date 11/18/93

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6	Victor Nerses US, NRC Project Manager Washington, DC 20555

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1.0 General Information

This report describes the Inservice Inspection of Duke Power Company's McGuire Nuclear Station Unit 2 during the 1993 Refueling Outage (also referred to as Outage 8), which is in the Third Inspection Period of the First 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 March 14, 1992.

1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Rotterdam	30664	NC-201819	- -
Pressurizer	Westinghouse	1491	NC-201818	W10285
Steam Generator 2A	Westinghouse	1481	NC-201307	68-112
Steam Generator 2B	Westinghouse	1482	NC-201308	68-113
Steam Generator 2C	Westinghouse	1483	NC-201309	68-114
Steam Generator 2D	Westinghouse	1484	NC-201310	68-115
Main Steam Supply to Auxiliary Equipment System	Duke Power Co.	SA	N/A	62
Containment Air Release and Addition System	Duke Power Co.	VQ	N/A	56
Main Steam System	Duke Power Co.	SM	N/A	70
Main Steam Vent to Atmosphere System	Duke Power Co.	SV	N/A	67
Reactor Coolant System	Duke Power Co.	NC	N/A	82
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	76
Refueling Water System	Duke Power Co.	FW	N/A	54
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	73
Residual Heat Removal System	Duke Power Co.	ND	N/A	63
Nuclear Service Water System	Duke Power Co.	RN	N/A	60

1.1 Identification Numbers (Continued)

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Chemical and Volume Control System	Duke Power Co.	NV	N/A	80
Component Cooling System	Duke Power Co.	KC	N/A	78
Main Feedwater System	Duke Power Co.	CF	N/A	61
Containment Spray System	Duke Power Co.	NS	N/A	69
Containment Ventilation Cooling Water System	Duke Power Co.	RV	N/A	72
Safety Injection System	Duke Power Co.	NI	N/A	83
Safety Injection Accumulator Tank 2A	Delta Southern Co.	41618-72-1	NC-201813	3034
Safety Injection Accumulator Tank 2B	Delta Southern Co.	41618-72-2	NC-201814	3035
Safety Injection Accumulator Tank 2C	Delta Southern Co.	41618-72-3	NC-201815	3036
Safety Injection Accumulator Tank 2D	Delta Southern Co.	41618-72-4	NC-201816	3037
Unit 2	Duke Power Co.	N/A	N/A	84

1.2 Authorized Nuclear Inservice Inspector(s)

Name:	R D Klein R D Klein 12-1-93
Employer:	The Hartford Steam Boiler Inspection & Insurance Company
Business Address:	The Hartford Steam Boiler Inspection & Insurance Company 200 Ashford Center North Suite 300 Atlanta, GA 30338

2.0 Summary of Inservice Inspection for Outage 8

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during Outage 8 at McGuire Nuclear Station Unit 2.

2.1 Class 1 Inspection

Examination Category B-A Pressure Retaining Welds in Reactor Vessel

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B01.010	Shell Welds		
B01.011	Circumferential	4	4
B01.012	Longitudinal	0	0
B01.020	Head Welds		
B01.021	Circumferential	1	1
B01.022	Meridional Welds	6	6
B01.030	Shell to Flange Welds	* 2	* 2
B01.040	Head to Flange Welds	0	0
B01.050	Repair Welds		
B01.051	Beltline Region	N/A	N/A
TOTALS		* 12	* 12

* Exam was 2 parts, Outages 1 & 8 from flange surface (B01.030.001) reference PIP M93-0792 & 2M93-0674.

B01.030.002 from Vessel ID reference PIP 2M93-1157

These two items were considered as the same exam.

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

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

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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B03.090	Nozzle to Vessel Welds	1st Interval complete 4 1st Interval partials x 4 2nd Interval partials * 4	1st Interval complete 4 1st Interval partials x 4 2nd Interval partial * 4
B03.100	Nozzle Inside Radius Section	1st Interval complete 4 2nd Interval complete *4	1st Interval complete 4 2nd Interval complete *4
	Pressurizer		
B03.110	Nozzle to Vessel Welds	0	0
B03.120	Nozzle Inside Radius Section	0	0
	Steam Generators (Primary Side)		
B03.130	Nozzle to Vessel Welds	N/A	N/A
B03.140	Nozzle Inside Radius Section	0	0
	Heat Exchangers (Primary Side)		
B03.150	Nozzle to Vessel Welds	N/A	N/A
B03.160	Nozzle Inside Radius Section	N/A	N/A
TOTALS		1st Interval complete 8 1st Interval partials x 4 2nd Interval complete * 4 2nd Interval partials * 4	1st Interval complete 8 1st Interval partials x 4 2nd Interval complete * 4 2nd Interval partials * 4

x Partial examinations to complete the exams for the end of the 1st interval.

* Partial Exams Done For 2nd Interval Intermediate Exam reference (Request for Relief MNS-004)

* 4 Welds Done For 2nd Interval Intermediate Exam reference Request for Relief MNS-004)

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

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

Examination Category B-F Pressure Retaining Dissimilar Metal Welds

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B05.010	Nominal Pipe Size ≥4" Nozzle to Safe End Butt Welds	1st Interval partials x 8 2nd Interval partials * 8	1st Interval partials x 8 2nd Interval partials * 8
B05.011	Nominal Pipe Size < 4" Nozzle to Safe End Butt Weld	N/A	N/A
B05.012	Nozzle to Safe End Socket Welds	N/A	N/A
	Pressurizer		
B05.020	Nominal Pipe Size ≥4" Nozzle to Safe End Butt Welds	2	2
B05.021	Nominal Pipe Size < 4" Nozzle to Safe End Butt Weld	N/A	N/A
B05.022	Nozzle to Safe End Socket Welds	N/A	N/A

x See Section 2, Category B-D (Page 3 of 17)

* 8 Partial Examinations for 2nd Interval Intermediate Exam reference (Request for Relief MNS-004)

Examination Category B-F Pressure Retaining Dissimilar Metal Welds

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Steam Generators		
B05.030	Nominal Pipe Size ≥4" Nozzle to Safe End Butt Welds	0	0
B05.031	Nominal Pipe Size < 4" Nozzle to Safe End Butt Weld	N/A	N/A
B05.032	Nozzle to Safe End Socket Welds	N/A	N/A
	Heat Exchangers		
B05.040	Nominal Pipe Size ≥4" Nozzle to Safe End Butt Welds	N/A	N/A
B05.041	Nominal Pipe Size < 4" Nozzle to Safe End Butt Weld	N/A	N/A
B05.042	Nozzle to Safe End Socket Welds	N/A	N/A
	Piping		
B05.050	Nominal Pipe Size ≥4" Dissimilar Metal Butt Welds	1st Interval partials x 8 2nd Interval partials * 8	1st Interval partials x 8 2nd Interval partials * 8
B05.051	Nominal Pipe Size <4" Dissimilar Metal Butt Welds	N/A	N/A
B05.052	Dissimilar Metal Socket Welds	N/A	N/A
TOTALS		1st Interval Partial x 5.33 1st Interval complete 2 2nd Interval Partial * 5.33	1st Interval Partial x 5.33 1st Interval complete 2 2nd Interval Partial * 5.33

x Partial Examinations to complete the exams for the end of the 1st Interval

* Partial Examinations for 2nd Interval Intermediate Exam reference (Request for Relief MNS-004)

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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B06.010	Closure Head Nuts	0	0
B06.020	Closure Studs (in place)	0	0
B06.030	Closure Studs, (when removed)	0	0
B06.040	Threads in Flange	18	18
B06.050	Closure Washers, Bushings	0	0
	Pressurizer		
B06.060	Bolts and Studs	N/A	N/A
B06.070	Flange Surface (when connection disassembled)	N/A	N/A
B06.080	Nuts , Bushings and Washers	N/A	N/A
	Steam Generators		
B06.090	Bolts and Studs	N/A	N/A
B06.100	Flange Surface (when connection disassembled)	N/A	N/A
B06.110	Nuts , Bushings and Washers	N/A	N/A
	Heat Exchangers		
B06.120	Bolts and Studs	N/A	N/A
B06.130	Flange Surface (when connection disassembled)	N/A	N/A
B06.140	Nuts , Bushings and Washers	N/A	N/A
	Piping		
B06.150	Bolts and Studs	N/A	N/A
B06.160	Flange Surface when (connection disassemble)	N/A	N/A
B06.170	Nuts , Bushings and Washers	N/A	N/A

Examination Category B-G-1 (Continued)

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pumps		
B06.180	Bolts and Studs	24	24
B06.190	Flange Surface (when connection disassembled)	0	0
B06.200	Nuts, Bushings and Washers	N/A	N/A
	Valves		
B06.210	Bolts and Studs	N/A	N/A
B06.220	Flange Surface (when connection disassembled)	N/A	N/A
B06.230	Nuts, Bushings and Washers	N/A	N/A
TOTALS		42	42

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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B07.010	Bolts, Studs, and Nuts	N/A	N/A
	Pressurizer		
B07.020	Bolts, Studs, and Nuts	0	0
	Steam Generators		
B07.030	Bolts, Studs, and Nuts	0	0
	Heat Exchangers		
B07.040	Bolts, Studs, and Nuts	N/A	N/A
	Piping		
B07.050	Bolts, Studs, and Nuts	0	0

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

	Pumps		
B07.060	Bolts, Studs, and Nuts	0	0
	Valves		
B07.070	Bolts, Studs, and Nuts	0	0
	CRD Housings		
B07.080	Bolts, Studs, and Nuts	0	0
TOTALS		0	0

Examination Category B-H Integral Attachments for Vessels

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B08.010	Integrally Welded Attachments	0	0
	Pressurizer		
B08.020	Integrally Welded Attachments	5	5
	Steam Generators		
B08.030	Integrally Welded Attachments	N/A	N/A
	Heat Exchangers		
B08.040	Integrally Welded Attachments	N/A	N/A
TOTALS		5	5

Examination Category B-J Pressure Retaining Welds in Piping

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
B09.010	Nominal Pipe Size ≥4"		
B09.011	Circumferential Welds	20	20
B09.012	Longitudinal Welds*	N/A	N/A
B09.020	Nominal Pipe Size <4"		
B09.021	Circumferential Welds	4	4
B09.022	Longitudinal Welds	N/A	N/A
B09.030	Branch Pipe Connection Welds		
B09.031	Nominal Pipe Size ≥4"	0	0
B09.032	Nominal Pipe Size <4"	0	0
B09.040	Socket Welds	14	14
TOTALS		38	38

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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Piping		
B10.010	Integrally Welded Attachments	N/A	N/A
	Pumps		
B10.020	Integrally Welded Attachments	N/A	N/A
	Valves		
B10.030	Integrally Welded Attachments	N/A	N/A
TOTALS		0	0

* 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-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 Scheduled During Outage	Total Examined During Outage
	Pumps		
B12.010	Pump Casing Welds	N/A	N/A
B12.020	Pump Casing	N/A	N/A
B12.030	Valves, Nominal Pipe Size <4" Valve Body Welds	N/A	N/A
B12.031	Valves, Nominal Pipe Size ≥4" Valve Body Welds	N/A	N/A
B12.040	Valve Body, Exceeding 4" Nominal Pipe Size	0	0
TOTALS		0	0

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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B13.010	Vessel Interior	1	1
	Reactor Vessel (BWR)		
B13.020	Interior Attachments	N/A	N/A
B13.021	Core Support Structure	N/A	N/A
	Reactor Vessel (PWR)		
B13.030	Core Support Structure	* .50 partial	* .50 partial
TOTALS		1.50	1.50

* Partial examination to complete the exam for the end of the 1st Interval.

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

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

Examination Category B-P All Pressure Retaining Components

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B15.010	Pressure Retaining Boundary	1	1
B15.011	Pressure Retaining Boundary	0	0
	Pressurizer		
B15.020	Pressure Retaining Boundary	1	1
B15.021	Pressure Retaining Boundary	0	0
	Steam Generators		
B15.030	Pressure Retaining Boundary	4	4
B15.031	Pressure Retaining Boundary	0	0
	Heat Exchangers		
B15.040	Pressure Retaining Boundary	N/A	N/A
B15.041	Pressure Retaining Boundary	N/A	N/A
	Piping		
B15.050	Pressure Retaining Boundary	10	10

Examination Category B-P (Continued)

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
B15.051	Pressure Retaining Boundary	5	5
	Pumps		
B15.060	Pressure Retaining Boundary	4	4
B16.061	Pressure Retaining Boundary	0	0
	Valves		
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		25	25

Examination Category B-Q Steam Generator Tubing

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

** 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. See Eddy Current Examination Report (RFO-8, 1993)

F1.1 Component Supports

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
F1.01	Reference Section 4.0 of this report	2	2
TOTALS		2	2

2.2 Class 2 Inspections

Examination Category C-A Pressure Retaining Welds in Pressure Vessel

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

Examination Category C-B Pressure Retaining Nozzle Welds in Vessels

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

Examination Category C-B (Continued)

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
C02.021	Nozzle to Shell (or Head Welds)	* 1	* 1
C2.022	Nozzle Inside Radius Section	0	0
TOTALS		2	2

* Reexamination of weld (not for ISI Report)

Examination Category C-C Pressure Retaining Nozzle Welds in Vessels

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

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

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

Examination Category C-F Pressure Retaining Welds in Piping

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
C05.010	Piping Welds $\leq 1/2$" Nominal Wall Thickness		
C05.011	Circumferential Weld	68	68
C05.012	Longitudinal Welds ***	16	16
C05.020	Piping Welds $> 1/2$" Nominal Wall Thickness		
C05.021	Circumferential Welds	Complete 5 x Partials 8	Complete 5 x Partials 8
C05.022	Longitudinal Welds ***	N/A	N/A
C05.030	Pipe Branch Connections		
C05.031	Circumferential Welds	N/A	N/A
C05.032	Longitudinal Welds ***	N/A	N/A
TOTALS		73 x Partials 8	73 x Partials 8

x Additional samples per IWC-2430(A)

*** 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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pumps		
C06.010	Pump Casing Welds	N/A	N/A
	Valves		
C06.020	Valve Body Welds	4	4
TOTALS		4	4

Examination Category C-H All Pressure Retaining Components

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pressure Vessel		
C07.010	Pressure Retaining Boundary	2	2
C07.011	Pressure Retaining Boundary	10	10
	Piping		
C07.020	Pressure Retaining Boundary	8	8
C07.021	Pressure Retaining Boundary	33	33
	Pumps		
C07.030	Pressure Retaining Boundary	6	6
C07.031	Pressure Retaining Boundary	3	3
	Valves		
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		62	62

F1.2 Component Supports

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
F1.02	Reference Section 4.0 of this report	77	77
TOTALS		77	77

2.3 Augmented Inspections

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
E01.001	Reactor Coolant Pump Flywheels	1	1
E02.001	Steam Generator Tube Examinations	Ref. footnote for Item No. B16.020	Ref. footnote for Item No. B16.020
E03.001	Pipe Rupture Protection Examinations	4	4
E04.001	Steam Generator Feedwater Modification	1	1
E06.001	Thermal Stress Piping (NRC Bulletin 88-08)	0	0
E07.001	IGSCC Cracking In SI Accumulator Nozzles	0	0

Augmented Inspections

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 First 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

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	† Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	x 14 Welds	x 14 Welds	100%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	8 Welds	8 Welds	100%	No
B-D	Full Penetration Welds of Nozzles in Vessels	36 Inspections	36 Inspections	100%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	55 Welds	55 Welds	100%	No
B-F	Pressure Retaining Dissimilar Metal Welds	46 Welds	46 Welds	100%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	370 Items	*367 Items	100%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	53 Connections	53 Connections	100%	No
B-H	Integral Attachment for Vessels	12 Attachments	12 Attachments	100%	No
B-J	Pressure Retaining Welds in Piping	189 Welds	189 Welds	100%	No

* Only one B06.190 was disassembled during the 1st Interval under Category B-G-1

x Reference note Section 2.0 (Page 1 of 17)

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

Class 1 Inspections (Continued)

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	† 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	N/A	N/A	N/A	N/A
B-L-2	Pump Casings	N/A	N/A	N/A	N/A
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	6 Valves	6 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-0	Pressure Retaining Welds in Control Rod Housings	3 Housings	3 Housings	100%	Yes
B-P	All Pressure Retaining Components				
	System Leakage Test	147	147	100%	No
	System Hydrostatic Test	21	21	100%	
B-Q	** Steam Generator Tubing	As stated in Station Technical Specifications	100% Station Technical Specifications Met		Yes
F1.01	Class 1 Component Supports	196 Supports	196 Supports	100%	No

** See Note on Category B-Q B16.020., (Section 2, Page 12 of 17)

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* Only one B06.190 was disassembled during the interval under B-G-1 Category.

† 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	† Deferral Allowed
C-A	Pressure Retaining Welds in Pressure Vessels	9 Welds	9 Welds	100%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	6 Welds	6 Welds	100%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	21 Attachments	21 Attachments	100%	No
C-D	Pressure Retaining Bolting Exceeding 2 Inches in Diameter	N/A	N/A	N/A	No
C-F	Pressure Retaining Welds in Piping	306 Welds	306 Welds	100%	No
C-G	Pressure Retaining Welds in Pumps and Valves	8 Welds	8 Welds	100%	No
C-H	All Pressure Retaining Components				
	System or Component Functional Test	43 Components	43 Components	100%	No
	System Hydrostatic Test	73 Components	63 Components	*86.3014%	Yes
F1.02	Class 2 Component Supports	478 Supports	478 Supports	100%	No

* See Section 5.0: Class B Pressure Test Listing, Reference Letter November 16, 1993 (Pending Pressure Test Items)

† 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	100% of Technical Specifications met
Steam Generator Tubes on Preheater Section	100% of requirements
Pipe Rupture Protection	100% of requirements
Steam Generator Feedwater Modification	100% of requirements
Thermal Stress Piping	100% of requirements
Safety Injection Accumulator Nozzles	100% of requirements

4.0 Final Inservice Inspection Plan For Outage 8

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 8 at McGuire Nuclear Station Unit 2.

The information shown below is a field descript[illegible] 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: NISIR[redacted]ISI02
FILE: C00713[redacted]
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B01

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B01.000.000	REACTOR VESSEL	WELDS********** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B01.010.000	REACTOR VESSEL	SHELL WELDS********* **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B01.011.000	REACTOR VESSEL	CIRCUMFERENTIAL***** SHELL WELDS*********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B01.011.001	2RPV-W05	MCM 2201.01-01 MCM 2201.01-19	_____ _____ _____	UT	ISI-138 _____	CS _____	05.300	50302	PC.04 TO PC.05 UPPER SHELL TO MIDDLE SHELL CAL. BLOCK 50304 100% EXAMINED
B01.011.002	2RPV-W04	MCM 2201.01-01 MCM 2201.01-19	_____ _____ _____	UT	ISI-138 _____	CS _____	08.600	50302	PC.04 TO PC.03 MIDDLE SHELL TO LOWER SHELL CAL. BLOCK 50304 99.9% EXAMINED
B01.011.003	2RPV-W03	MCM 2201.01-01 MCM 2201.01-19	_____ _____ _____	UT	ISI-138 _____	CS _____	05.300	50301	PC.03 TO PC.02 LOWER SHELL TO LOWER HEAD CAL. BLOCKS 50302, 50304 LIMITED 43.6% EXAMINED
B01.011.004	2RPV-W06	MCM 2201.01-01 MCM 22-1.01-19	_____ _____ _____	UT	ISI-138 _____	CS _____	08.600	50302	PC.05 TO PC.06 UPPER SHELL TO NOZZLE BELT CAL. BLOCK 50304 LIMITED 48.2% EXAMINED
B01.012.000	REACTOR VESSEL	LONGITUDINAL********* SHELL WELDS*********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B01.020.000	REACTOR VESSEL	HEAD WELDS********** **********		***	********	*****	__.__ __.___	*****	********** **********
B01.021.000	REACTOR VESSEL	HEAD WELDS********** CIRCUMFERENTIAL*****		***	*******	*****	__.__ __.___	*****	********** **********
B01.021.002	2RPV-M01	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	PC.02 TO PC.01 LOWER HEAD TO BOTTOM HEAD CAL. BLOCKS 50302, 50304 LIM.53.4% EXAM,PIP 2M93-0717
B01.022.000	REACTOR VESSEL	HEAD WELDS********** MERIDIONAL**********		***	*******	*****	__.__ __.___	*****	********** **********
B01.022.001	2RPV-M02-01	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	APPROX. 210 DEG. LOWER HEAD CAL. BLOCKS 50302, 50304 86.6% EXAMINED
B01.022.002	2RPV-M02-02	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	APROX. 150 DEG. LOWER HEAD CAL. BLOCKS 50302, 50304 LIMITED 83.0% EXAMINED
B01.022.003	2RPV-M02-03	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	APROX. 90 DEG. LOWER HEAD CAL. BLOCKS 50302, 50304 LIMITED 86.6% EXAMINED
B01.022.004	2RPV-M02-04	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	APROX. 30 DEG. LOWER HEAD CAL. BLOCKS 50302, 50304 LIMITED 76.4% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B01.022.005	2RPV-H02-05	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	APROX. 330 DEG. LOWER HEAD CAL. BLOCKS 50302, 50304 LIMITED 86.6% EXAMINED
B01.022.006	2RPV-H02-06	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	05.300	50301	APROX. 270 DEG. LOWER HEAD CAL. BLOCKS 50302, 50304 LIMITED 86.6% EXAMINED
B01.030.000	REACTOR VESSEL	SHELL TO FLANGE WELD		***	*******	*****	__.__	*****	**********
B01.030.001	2RPV-H07	MCM 2201.01-01 MCM 2201.01-19		UT	NDE-650 ISI-130	CS	10.900	50304	PC.07 TO PC.06 FLG. TO UPPER SHELL (NOZ.BELT) UT FROM FLG. SUR. (OT.1 0-180 OT.8 180-360,PIP 2M93-0674
B01.030.002	2RPV-H07	MCM 2201.01-01 MCM 2201.01-19		UT	ISI-138	CS	10.900	50378	PC.07 TO PC.06 FLG. TO NOZZLE BELT UT FROM VESSEL ID CAL BLOCK 50304,94.2% EXAMINED
B01.040.000	REACTOR VESSEL	HEAD TO FLANGE WELDS		***	*******	*****	__.__	*****	**********

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B02.000.000	***PRESSURIZER	AND STEAM GENERATOR VESSEL WELDS********		***	*******	*****	__.__	*****	**********
B02.010.000	***PRESSURIZER	SHELL TO HEAD WELDS **********		***	*******	*****	__.__	*****	**********
B02.011.000	***PRESSURIZER	SHELL TO HEAD WELDS CIRCUMFERENTIAL*****		***	*******	*****	__.__	*****	**********
B02.012.000	***PRESSURIZER	WELDS********** LONGITUDINAL********		***	*******	*****	__.__	*****	**********
B02.040.000	**********STEAM	GENERATORS TUBESHEET TO HEAD WELDS*******		***	*******	*****	__.__	*****	**********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B03.090.000	REACTOR VESSEL	NOZZLE TO VESSEL**** WELDS****		***	*******	*****	__.__ __.__	*****	********** **********
B03.090.001	2RPV-W11	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50303	67 DEG. INLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 72.1% EXAMINED
B03.090.001A	2RPV-W11	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	67 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID LIMITED 72.1% EXAMINED
B03.090.002	2RPV-W12	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50303	113 DEG. INLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 72.1% EXAMINED
B03.090.002A	2RPV-W12	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	113 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID LIMITED 72.1% EXAMINED
B03.090.003	2RPV-W13	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50303	247 DEG. INLET NOZZLE TO SHELL UT FROM [illegible]SSEL ID CAL. BLOCK 50304 LIMITED 72.1% EXAMINED
B03.090.003A	2RPV-W13	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	247 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID LIMITED 72.1% EXAMINED
B03.090.004	2RPV-W14	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50303	293 DEG. INLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 72.1% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B03.090.004A	2RPV-W14	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	293 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID LIMITED 72.1% EXAMINED
B03.090.005	2RPV-W15	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50303	22 DEG. OUTLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 43.7% EXAMINED
B03.090.005A	2RPV-W15	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	22 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 43.7% EXAMINED
B03.090.006	2RPV-W16	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50303	158 DEG. OUTLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 43.7% EXAMINED
B03.090.006A	2RPV-W16	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	158 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 43.7% EXAMINED
B03.090.007	2RPV-W17	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50303	202 DEG. OUTLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 43.7% EXAMINED
B03.090.007A	2RPV-W17	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	202 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 43.7% EXAMINED
B03.090.008	2RPV-W18	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50303	338 DEG. OUTLET NOZZLE TO SHELL UT FROM VESSEL ID CAL. BLOCK 50304 LIMITED 43.7% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B03.090.008A	2RPV-W18	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	338 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 43.7% EXAMINED
B03.100.000	REACTOR VESSEL	NOZZLE INSIDE****** RADIUS SECTION******		***	***-***	*****	__.__ __.___	*****	**********
B03.100.001	2RPV-W11	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	67 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID INSIDE RADIUS LIMITED 64.6% EXAMINED
B03.100.002	2RPV-W12	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	113 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID INSIDE RADIUS LIMITED 64.6% EXAMINED
B03.100.003	2RPV-W13	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	247 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID INSIDE RADIUS LIMITED 64.6% EXAMINED
B03.100.004	2RPV-W14	MCM 2201.01-009 MCM 2201.01-019		UT	ISI-138	CS	61.50 10.900	50304	293 DEG. INLET NOZZLE TO SHELL UT FROM NOZZLE ID INSIDE RADIUS LIMITED 64.6%EXAMINED
B03.100.005	2RPV-W15	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	22 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 87.7%EXAMINED
B03.100.006	2RPV-W16	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	158 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 87.7%EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B03.100.007	2RPV-N17	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	202 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 87.7% EXAMINED
B03.100.008	2RPV-N18	MCM 2201.01-010 MCM 2201.01-019		UT	ISI-138	CS	52.90 10.900	50304	338 DEG. OUTLET NOZZLE TO SHELL UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004 LIMITED 87.7% EXAMINED
B03.110.000	***PRESSURIZER	NOZZLE TO VESSEL**** WELDS**********		***	*******	*****	__.__ __.___	*****	**********
B03.120.000	***PRESSURIZER	NOZZLE INSIDE RADIUS SECTION**********		***	*******	*****	__.__ __.___	*****	**********
B03.140.000	**********STEAM	GENERATORS NOZZLE TO INSIDE RADIUS*******		***	*******	*****	__.__ __.___	*****	**********

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B04.010.000	REACTOR VESSEL	PARTIAL PENETRATION* WELDS**********	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	********** ********** _____ _____
B04.012.000	*******PARTIAL	PENETRATION******** CRD NOZZLES********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	INSPECT AND DOCUMENT 100% OF NOZZLE WELDS ON NPD PROCEDURE _____ _____
B04.013.000	*******PARTIAL	PENETRATION******** INSTRUMENTATION*****	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	INSPECT AND DOCUMENT 100% OF NOZZLE WELDS ON NPD PROCEDURE _____ _____
B04.020.000	***PRESSURIZER	HEATER PENETRATION** WELDS**********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	INSPECT AND DOCUMENT 100% OF PENT. WELDS ON NPD PROCEDURE _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.010.000	REACTOR VESSEL	NOZZLE TO SAFE END** BUTT WELDS**********		***	*******	*****		*****	NOMINAL PIPE SIZE > 4 INCH**** **********
B05.010.001	2RPV-W11-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	40397	RV INLET NOZZLE TO SAFE END 67 DEG. UT FROM NOZZLE SIDE CAL. BLOCKS 50214, 50304 97.9% EXAMINED
B05.010.001A	2RPV-W11-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	50214	RV INLET NOZZLE TO SAFE END 67 DEG. UT FROM PIPE SIDE CAL. BLOCK 50304 97.9% EXAMINED
B05.010.002	2RPV-W12-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	40397	RV INLET NOZZLE TO SAFE END 113 DEG. UT FROM NOZZLE SIDE CAL. BLOCKS 50214, 50304 97.9% EXAMINED
B05.010.002A	2RPV-W12-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	50214	RV INLET NOZZLE TO SAFE END 113 DEG. UT FROM PIPE SIDE CAL. BLOCK 50304 97.9% EXAMINED
B05.010.003	2RPV-W13-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	40397	RV INLET NOZZLE TO SAFE END 247 DEG. UT FROM NOZZLE SIDE CAL. BLOCKS 50214, 50304 97.9% EXAMINED
B05.010.003A	2RPV-W13-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	50214	RV INLET NOZZLE TO SAFE END 247 DEG. UT FROM PIPE SIDE CAL. BLOCK 50304 97.9% EXAMINED
B05.010.004	2RPV-W14-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	40397	RV INLET NOZZLE TO SAFE END 293 DEG. UT FROM NOZZLE SIDE CAL. BLOCKS 50214, 50304 97.9% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.010.004A	2RPV-W14-SE	MCM 2201.01-0009 MCM 2201.01-19		UT	ISI-138	CS/SS	27.50 02.281	50214	RV INLET NOZZLE TO SAFE END 293 DEG. UT FROM PIPE SIDE CAL. BLOCK 50304 97.9% EXAMINED
B05.010.005	2RPV-W15-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 22 DEG. UT FROM NOZZLE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.010.005A	2RPV-W15-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 22 DEG. UT FROM PIPE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.010.006	2RPV-W16-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 158 DEG. UT FROM NOZZLE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.010.006A	2RPV-W16-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 158 DEG. UT FROM PIPE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.010.007	2RPV-W17-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 202 DEG. UT FROM NOZZLE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.010.007A	2RPV-W17-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 202 DEG. UT FROM PIPE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.010.008	2RPV-W18-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 338 DEG. UT FROM NOZZLE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.010.008A	2RPV-W18-SE	MCM 2201.01-19 MCM 2201.01-010		UT	ISI-138	CS/SS	29.00 02.312	50214	RV OUTLET NOZZLE TO SAFE END 338 DEG. UT FROM PIPE SIDE SEE REQUEST FOR RELIEF MNS-004 100% EXAMINED
B05.020.000	***PRESSURIZER	NOZZLE TO SAFE END** BUTT WELDS**********		***	*******	*****	__.__ __.___	*****	NOMINAL PIPE SIZE > 4 INCH**** **********
B05.020.005	2PZR-4BSE	MCM 2201.01-15 MCM 2201.01-16		UT	NDE-610 NDE-600	CS/SS	06.00 00.906	50250	PRESSURIZER SAFETY NOZZLE SAFE END (W-Z AXIS) CAL BLOCK 50355 100%EXAMINED
B05.020.005A	2PZR-4BSE	MCM 2201.01-15 MCM 2201.01-16		PT	NDE-35	CS/SS	06.00 00.906	-----	PRESSURIZER SAFETY NOZZLE SAFE END (W-Z AXIS)
B05.020.006	2PZR-4CSE	MCM 2201.01-15 MCM 2201.01-16		UT	NDE-610 NDE-600	CS/SS	06.00 00.906	50250	PRESSURIZER SAFETY NOZZLE SAFE END (W-X AXIS) CAL BLOCK 50355 100% EXAMINED
B05.020.006A	2PZR-4CSE	MCM 2201.01-15 MCM 2201.01-16		PT	NDE-35	CS/SS	06.00 00.906	-----	PRESSURIZER SAFETY NOZZLE SAFE END (W-X AXIS)
B05.030.000	**********STEAM	GENERATOR NOZZLE TO* SAFE END BUTT WELDS*		***	*******	*****	__.__ __.___	*****	NOMINAL PIPE SIZE > 4 INCH**** **********
B05.050.000	CLASS 1 PIPING	DISSIMILAR METAL**** BUTT WELDS**********		***	*******	*****	__.__ __.___	*****	NOMINAL PIPE SIZE > 4 INCH**** **********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.050.001	2NC2F-1-1	MCM 2201.01-181/1 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT NOZZLE SIDE TO BE DONE WITH B05.010.005 SEE REQUEST FOR RELIEF MNS-004 CAL.BLOCK 50304, 100% EXAMINED
B05.050.001A	2NC2F-1-1	MCM 2201.01-181/1 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.005A SEE REQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.004	2NC2F-1-8	MCM 2201.01-18/3 MCM 2201.01-0009		UT	ISI-138	CS/SS	27.50 02.281	40397	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.001 CAL. BLOCKS 50214, 50304 97.9% EXAMINED
B05.050.004A	2NC2F-1-8	MCM 2201.01-18/3 MCM 2201.01-0009		UT	ISI-138	CS/SS	27.50 02.281	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.001A CAL. BLOCK 50304 97.9% EXAMINED
B05.050.005	2NC2F-2-1	MCM 2201.01-18/4 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.006 SEE REQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.005A	2NC2F-2-1	MCM 2201.01-18/4 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.006A SEE REQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.008	2NC2F-2-8	MCM 2201.01-18/6 MCM 2201.01-09		UT	ISI-138	CS/SS	27.50 02.300	40397	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.002 CAL. BLOCKS 50214, 50304 97.9% EXAMINED
B05.050.008A	2NC2F-2-8	MCM 2201.01-18/6 MCM 2201.01-09		UT	ISI-138	CS/SS	27.50 02.300	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.002A CAL. BLOCK 50304 97.9% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.050.009	2NC2F-3-1	MCM 2201.01-18/7 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.007 SEE REQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.009A	2NC2F-3-1	MCM 2201.01-18/7 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.007A SEE REQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.012	2NC2F-3-8	MCM 2201.01-18/9 MCM 2201.01-09		UT	ISI-138	CS/SS	27.50 02.281	50214	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.003 CAL. BLOCK 50304 97.9% EXAMINED
B05.050.012A	2NC2F-3-8	MCM 2201.01-18/9 MCM 2201.01-09		UT	ISI-138	CS/SS	27.50 02.281	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.003A CAL. BLOCK 50304 97.9% EXAMINED
B05.050.013	2NC2F-4-1	MCM 2201.01-18/10 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.008 SEE PEQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.013A	2NC2F-4-1	MCM 2201.01-18/10 MCM 2201.01-10		UT	ISI-138	CS/SS	29.00 02.300	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.008A SEE REQUEST FOR RELIEF MNS-004 CAL. BLOCK 50304,100% EXAMINED
B05.050.016	2NC2F-4-8	MCM 2201.01-18/12 MCM 2201.01-09		UT	ISI-138	CS/SS	27.50 02.300	40397	UT FROM NOZZLE SIDE TO BE DONE WITH B05.010.004 CAL. BLOCKS 50214, 50304 97.9% EXAMINED
B05.050.016A	2NC2F-4-8	MCM 2201.01-18/12 MCM 2201.01-09		UT	ISI-138	CS/SS	27.50 02.300	50214	UT FROM PIPE SIDE TO BE DONE WITH B05.010.004A CAL. BLOCK 50304 97.9% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.010.000	REACTOR VESSEL	CLOSURE HEAD NUTS***		***	*******	*****	__.__	*****	**********
B06.020.000	REACTOR VESSEL	CLOSURE STUDS*******		***	*******	*****	__.__	*****	IN PLACE**********
B06.030.000	REACTOR VESSEL	CLOSURE STUDS*******		***	*******	*****	__.__	*****	WHEN REMOVED**********
B06.040.000	REACTOR VESSEL	THREADS IN FLANGE***		***	*******	*****	__.__	*****	**********
B06.040.037	2RPV-THREAD-37	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.038	2RPV-THREAD-38	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.039	2RPV-THREAD-39	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.040	2RPV-THREAD-40	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.041	2RPV-THREAD-41	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.042	2RPV-THREAD-42	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.043	2RPV-THREAD-43	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.044	2RPV-THREAD-44	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 97.44% EXAMINED
B06.040.045	2RPV-THREAD-45	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.046	2RPV-THREAD-46	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.047	2RPV-THREAD-47	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.048	2RPV-THREAD-48	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.049	2RPV-THREAD-49	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.050	2RPV-THREAD-50	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.051	2RPV-THREAD-51	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.052	2RPV-THREAD-52	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.053	2RPV-THREAD-53	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.040.054	2RPV-THREAD-54	MCM 2201.01-1		UT	NDE-640	CS	__.__	40387	THREADS IN FLANGE 100% EXAMINED
B06.050.000	REACTOR VESSEL	CLOSURE WASHERS AND BUSHINGS		***	*******	*****	__.__	*****	**********
B06.180.000	*CLASS 1 PUMPS	BOLTS AND STUDS		***	*******	*****	__.__	*****	GREATER THAN 2 INCH

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.180.004	2RCP-2D-F	MCM 1201.01-120 MC 2553.1.0		UT	NDE-44	CS	04.37 30.500	50360	24 BOLTS MAIN FLANGE PC.10 100% EXAMINED
B06.190.000	*CLASS 1 PUMPS	FLANGE SURFACE******		***	*******	*****	__.__	*****	WHEN CONNECTION DISASSEMBLED**

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B07.020.000	***PRESSURIZER	BOLTS,STUDS,AND NUTS **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	********** ********** _____ _____
B07.030.000	**********STEAM	GENERATOR********** BOLTS,STUDS,AND NUTS	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	********** ********** _____ _____
B07.050.000	CLASS 1 PIPING	BOLTS,STUDS,AND NUTS **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	********** ********** _____ _____
B07.060.000	*CLASS 1 PUMPS	BOLTS,STUDS,AND NUTS **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	********** ********** _____ _____
B07.070.000	CLASS 1 VALVES	BOLTS,STUDS,AND NUTS **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	********** ********** _____ _____
B07.080.000	**CRD HOUSINGS	BOLTS,STUDS,AND NUTS **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.__	*****	INSPECT IF DISASSEMBLED LIST CRD NUMBER INSPECTED _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B08.010.000	*******REACTOR	***INTEGRALLY WELDED ATTACHMENTS*******		***	*******	*****	__.__ __.___	*****	********** **********
B08.020.000	***PRESSURIZER	INTEGRALLY WELDED*** ATTACHMENTS*********		***	*******	*****	__.__ __.___	*****	********** **********
B08.020.005	2PZR-W13D	MCM 2201.01-16 EDSK-379438B		MT	NDE-25	CS	04.00 04.000	-----	PRESSURIZER SEISMIC LUG TO SHELL
B08.020.006	2PZR-W14A	MCM 2201.01-16 EDSK-379350B		MT	NDE-25	CS	02.00 10.000	-----	PRESSURIZER SUPPORT BRACKET TO SHELL
B08.020.007	2PZR-W14B	MCM 2201.01-16 EDSK-379350B		MT	NDE-25	CS	02.00 10.000	-----	PRESSURIZER SUPPORT BRACKET TO SHELL
B08.020.008	2PZR-W14C	MCM 2201.01-16 EDSK-379350B		MT	NDE-25	CS	02.00 10.000	-----	PRESSURIZER SUPPORT BRACKET TO SHELL
B08.020.009	2PZR-W14D	MCM 2201.01-16 EDSK-379350B		MT	NDE-25	CS	02.00 10.000	-----	PRESSURIZER SUPPORT BRACKET TO SHELL

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.010.000	CLASS 1 PIPING	NOMINAL PIPE SIZE*** 4 INCH AND GREATER**		***	*******	*****	__.__ __.___	*****	********** **********
B09.011.000	**********	CIRCUMFERENTIAL***** WELDS**********		***	*******	*****	__.__ __.___	*****	********** **********
B09.011.035	2NC2FW13-1	MC 2553-2.0 MCFI-2NC-13		UT	NDE-600	SS	04.00 00.531	50275	SELECTION CRITERIA 4.2.1 100% EXAMINED
B09.011.035A	2NC2FW13-1	MC 2553-2.0 MCFI-2NC-13		PT	NDE-35	SS	04.00 00.531	-----	SELECTION CRITERIA 4.2.1
B09.011.036	2NC2FW13-19	MC 2553-2.0 MCFI-2NC-13		UT	NDE-600	SS	04.00 00.531	50275	SELECTION CRITERIA 4.2.1 100% EXAMINED
B09.011.036A	2NC2FW13-19	MC 2553-2.0 MCFI-2NC-13		PT	NDE-35	SS	04.00 00.531	-----	SELECTION CRITERIA 4.2.1
B09.011.037	2NC2FW13-8	MC 2553-2.0 MCFI-2NC-13		UT	NDE-610	SS	06.00 00.719	50211	SELECTION CRITERIA 4.2.1 100% EXAMINED
B09.011.037A	2NC2FW13-8	MC 2553-2.0 MCFI-2NC-13		PT	NDE-35	SS	06.00 00.719	-----	SELECTION CRITERIA 4.2.1

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.038	2NC2FW2-1	MC 2553-2.0 MCFI-2NC-2		UT	NDE-610	SS	14.00 01.406	50207	SELECTION CRITERIA 4.2.1 LIMITED 72.7% EXAMINED
B09.011.038A	2NC2FW2-1	MC 2553-2.0 MCFI-2NC-2		PT	NDE-35	SS	14.00 01.406	-----	SELECTION CRITERIA 4.2.1 LIMITED 73% EXAMINED
B09.011.042	2NC2FW22-9	MC 2553-1.0 MCFI-2NC-22		UT	NDE-610 NDE1001	SS	10.00 01.000	50209	SELECTION CRITERIA 4.2.1 SEE E03.001.005 USE NDE-610 FOR MANUAL SCAN 96.9%EXAMINED
B09.011.042A	2NC2FW22-9	MC 2553-1.0 MCFI-2NC-22		PT	NDE-35	SS	10.00 01.000	-----	SELECTION CRITERIA 4.2.1 SEE E03.001.005A
B09.011.043	2NC2FW22-6	MC 2553-1.0 MCFI-2NC-22		UT	NDE-610 NDE1001	SS	10.00 01.000	50209	SELECTION CRITERIA 4.2.1 SEE E03.001.003 USE NDE-610 FOR MANUAL SCAN 98.6% EXAMINED
B09.011.043A	2NC2FW22-6	MC 2553-1.0 MCFI-2NC-22		PT	NDE-35	SS	10.00 01.000	-----	SELECTION CRITERIA 4.2.1 SEE E03.001.003A
B09.011.044	2NC2FW16-6	MC 2553-1.0 MCFI-2NC-16		UT	NDE-610	SS	06.00 00.719	50211	SELECTION CRITERIA 4.2.1 90.6% EXAMINED
B09.011.044A	2NC2FW16-6	MC 2553-1.0 MCFI-2NC-16		PT	NDE-35	SS	06.00 00.719	-----	SELECTION CRITERIA 4.2.1

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.050	2NC2FW53-17	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610	SS	06.00 00.719	50211	SELECTION CRITERIA 4.2.1 100% EXAMINED
B09.011.060A	2NC2FW53-17	MC 2553-2.0 MCFI-2NC-53		PT	NDE-35	SS	06.00 00.719	-----	SELECTION CRITERIA 4.2.1
B09.011.076	2NC2FW53-12	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610	SS	06.00 00.719	50211	TERMINAL END PZR SAFETY LINE UT FROM ELBOW SIDE 100% EXAMINED
B09.011.076A	2NC2FW53-12	MC 2553-2.0 MCFI-2NC-53		PT	NDE-35	SS	06.00 00.719		TERMINAL END PRESSURIZER SAFETY LINE
B09.011.076B	2NC2FW53-12	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610 NDE-600	SS	07.50 01.200	50250	TERMINAL END PZR SAFETY LINE UT FROM SE SIDE ONLY 100% EXAMINED
B09.011.077	2NC2FW53-13	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610	SS	06.00 00.719	50211	TERMINAL END PZR SAFETY LINE UT FROM ELBOW SIDE 100% EXAMINED
B09.011.077A	2NC2FW53-13	MC 2553-2.0 MCFI-2NC-53		PT	NDE-35	SS	06.00 00.719		TERMINAL END PRESSURIZER SAFETY LINE
B09.011.077B	2NC2FW53-13	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610 NDE-600	SS	07.50 01.200	50250	TERMINAL END PZR SAFETY LINE UT FROM SE SIDE ONLY 100% EXAMINED

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.078	2NC2FW53-26	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610	SS	06.00 00.719	50211	TERMINAL END PZR SAFETY LINE UT FROM ELBOW SIDE 100% EXAMINED
B09.011.078A	2NC2FW53-26	MC 2553-2.0 MCFI-2NC-53		PT	NDE-35	SS	[illegible] 00.719		TERMINAL END PRESSURIZER SAFETY LINE
B09.011.078B	2NC2FW53-26	MC 2553-2.0 MCFI-2NC-53		UT	NDE-610 NDE-600	SS	07.50 01.200	50250	TERMINAL END PZR SAFETY LINE UT FROM SE SIDE ONLY 100% EXAMINED
B09.011.079	2NC2FW61-1	MC 2553-2.0 MCFI-2NC-61		UT	NDE-610	SS	06.00 00.719	50211	TERMINAL END PZR RELIEF LINE UT FROM ELBOW SIDE 100% EXAMINED
B09.011.079A	2NC2FW61-1	MC 2553-2.0 MCFI-2NC-61		PT	NDE-35	SS	06.00 00.719		TERMINAL END PRESSURIZER RELIEF LINE
B09.011.079B	2NC2FW61-1	MC 2553-2.0 MCFI-2NC-61		UT	NDE-610 NDE-600	SS	07.50 01.200	50250	TERMINAL END PZR RELIEF LINE UT FROM SE SIDE ONLY 100% EXAMINED
B09.011.302	2ND2F-4	MC-2561-1.0 MCFI-2ND-1		UT	NDE-610 NDE1001	SS	14.00 01.250	50213	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.302A	2ND2F-4	MC-2561-1.0 MCFI-2ND1		PT	NDE-35	SS	14.00 01.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.303	2ND2F-6	MC 2561-1.0 MCFI-2ND-1		UT	NDE-610 NDE1001	SS	14.00 01.250	50213	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.303A	2ND2F-6	MC-2561-1.0 MCFI-2ND1		PT	NDE-35	SS	14.00 01.250	-----	
B09.011.428	2NI2F-871	MC 2562-2.1 MCFI-2NI-19		UT	NDE-610 NDE1001	SS	06.00 00.719	50211	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.428A	2NI2F-871	MC-2562-2.1 MCFI-2NI-19		PT	NDE-35	SS	06.00 00.719	-----	
B09.011.431	2NI2FW85-13	MC-2562-4.0 MCFI-2NI-85		UT	NDE-610 NDE1001	SS	08.00 00.906	50210	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.431A	2NI2FW85-13	MC-2562-4.0 MCFI-2NI-85		PT	NDE-35	SS	08.00 00.906	-----	
B09.011.457	2NI2FW85-1	MC-2562-4.0 MCFI-2NI-85		UT	NDE-610 NDE1001	SS	08.00 00.906	50210	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.457A	2NI2FW85-1	MC-2562-4.0 MCFI-2NI-85		PT	NDE-35	SS	08.00 00.906	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.458	2NI2FW85-6	MC-2562-4.0 MCFI-2NI-85		UT	NDE-610 NDE1001	SS	08.00 00.906	50210	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 95.7% EXAMINED
B09.011.458A	2NI2FW85-6	MC-2562-4.0 MCFI-2NI-85		PT	NDE-35	SS	08.00 00.906	-----	
B09.011.459	2NI2FW85-14	MC-2562-4.0 MCFI-2NI-85		UT	NDE-610 NDE1001	SS	08.00 00.906	50210	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.459A	2NI2FW85-14	MC-2562-4.0 MCFI-2NI-85		PT	NDE-35	SS	08.00 00.906	-----	
B09.011.460	2NI2FW85-15	MC-2562-4.0 MCFI-2NI-85		UT	NDE-610 NDE1001	SS	08.00 00.906	50210	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 100% EXAMINED
B09.011.460A	2NI2FW85-15	MC-2562-4.0 MCFI-2NI-85		PT	NDE-35	SS	08.00 00.906	-----	
B09.012.000	**********	LONGITUDINAL******** WELDS**********		***	*******	*****	__.__ __.___	*****	**********
B09.020.000	CLASS 1 PIPING	NOMINAL PIPE SIZE*** < 4 INCH**********		***	*******	*****	__.__ __.___	*****	**********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.021.000	**********	CIRCUMFERENTIAL***** WELDS**********		***	*******	*****	__.__ __.___	*****	********** **********
B09.021.043	2NC2FW62-16	MC-2553-3.0 MCFI-2NC-62		PT	NDE-35	SS	03.00 00.438	-----	---------- ----------
B09.021.044	2NC2FW62-19	MC-2553-3.0 MCFI-2NC-62		PT	NDE-35	SS	03.00 00.438	-----	---------- ----------
B09.021.151	2NV2FW229-4	MC-2554-1.2 MCFI-2NV-229		PT	NDE-35	SS	03.00 00.438	-----	SELECTION CRITERIA 4.2.3 ----------
B09.021.152	2NV2FW229-2	MC-2554-1.2 MCFI-2NV-229		PT	NDE-35	SS	03.00 00.438	-----	SELECTION CRITERIA 4.2.3 ----------
B09.030.000	CLASS 1 PIPING	BRANCH PIPE********* CONNECTION WELDS****		***	*******	*****	__.__ __.___	*****	********** **********
B09.031.000	**NOMINAL PIPE	SIZE 4 INCH AND GREATER**********		***	*******	*****	__.__ __.___	*****	********** **********
B09.032.000	**NOMINAL PIPE	LESS THAN 4 INCH **********		***	*******	*****	__.__ __.___	*****	********** **********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.040.000	**SOCKET WELDS	********** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B09.040.001	2NC2FW15-27	MC-2553-2.0 MCFI-2NC-15	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	SELECTION CRITERIA 4.2.1 ---------- RESCH.OUT1 TO OUT8 _____
B09.040.002	2NC2FW15-28	MC-2553-2.0 MCFI-2NC-15	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	SELECTION CRITERIA 4.2.1 ---------- RESCH.OUT1 TO OUT8 _____
B09.040.003	2NC2FW15-29	MC-2553-2.0 MCFI-2NC-15	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	SELECTION CRITERIA 4.2.1 ---------- RESCH.OUT1 TO OUT8 _____
B09.040.004	2NC2FW15-30	MC-2553-2.0 MCFI-2NC-15	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	SELECTION CRITERIA 4.2.1 ---------- RESCH.OUT1 TO OUT8 _____
B09.040.005	2NC2FW15-31	MC-2553-2.0 MCFI-2NC-15	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	SELECTION CRITERIA 4.2.1 ---------- RESCH.OUT1 TO OUT8 _____
B09.040.029	2NC2FW47-12	MC 2553-1.0 MCFI-2NC-47	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	---------- ---------- _____ _____
B09.040.048	2NC2FW79-12	MC 2553-3.0 MCFI-2NC-79	_____ _____ _____	PT	NDE-35 _____	SS _____	02.00 00.344	-----	SELECTION CRITERIA 4.2.1 ---------- _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.040.057	2NC2FW95-1	MC-2553-1.0 MCFI-2NC-95		PT	NDE-35	SS	02.00 00.344	-----	
B09.040.129	2NI2FW116-8	MC 2562-1.0 MCFI-2NI-116		PT	NDE-35	SS	02.00 00.344	-----	
B09.040.165	2NV2FW230-1	MC 2554-1.2 MCFI-2NV-230		PT	NDE-35	SS	02.00 00.344	-----	SELECTION CRITERIA 4.2.3 RESCH FROM OUT1 TO OUT8
B09.040.166	2NV2FW230-2	MC 2554-1.2 MCFI-2NV-230		PT	NDE-35	SS	02.00 00.344	-----	SELECTION CRITERIA 4.2.3 RESCH FROM OUT1 TO OUT8
B09.040.167	2NV2FW230-3	MC 2554-1.2 MCFI-2NV-230		PT	NDE-35	SS	02.00 00.344	-----	SELECTION CRITERIA 4.2.3 RESCH FROM OUT1 TO OUT8
B09.040.168	2NV2FW230-4	MC 2554-1.2 MCFI-2NV-230		PT	NDE-35	SS	02.00 00.344	-----	SELECTION CRITERIA 4.2.3 RESCH FROM OUT1 TO OUT8
B09.040.169	2NV2FW230-5	MC 2554-1.2 MCFI-2NV-230		PT	NDE-35	SS	02.00 00.344	-----	SELECTION CRITERIA 4.2.3 RESCH FROM OUT1 TO OUT8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B12.040.000	*CLASS 1 VALVE	INTERNAL SURFACES***	_____	***	*******	*****	__.__	*****	**********
		**********	_____		_____	_____	__.___		**********
			_____						_____
									_____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B13.010.000	REACTOR VESSEL	VESSEL INTERIOR***** **********		***	*******	*****	__.__	*****	********** **********
B13.010.001	2RPV-INTERIOR	MCM 2201.01-21		VT3	[illegible]54 [illegible]14	-----	__.__	-----	AREA ABOVE AND BELOW CORE MADE ACCESSIBLE DURING REFUELING PIP 2M93-0687
B13.030.000	REACTOR VESSEL	CORE SUPPORT STRUCTURE					__.__		
B13.030.001	2RPV-CORE-SUP	MCM 2201.01-21		VT3	QAL-14	-----	__.__	-----	INSPECT WHEN STRUCTURE IS REMOVED FROM VESSEL PARTIAL OUT.6

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B14.010.000	REACTOR VESSEL	CRD HOUSING WELDS*** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	INSPECT ONE OF THE FOLLOWING WELDS EACH INSPECTION PERIOD

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16.020.000	******-***STEAM	GENERATOR TUBING**** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B16.021.000	******SGA STEAM	GENERATOR TUBING**** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B16.021.001	2SGA-TUBES	MCM-2201.01-187 ----------	_____ _____ _____	ET	ISI-424 NDE-701	IN _____	00.75 00.043	50285	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2 SEE EDDY CURRENT EXAMINATION REPORT UNIT 2 (RFO 8 1993)
B16.022.000	******SGB STEAM	GENERATOR TUBING**** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B16.022.001	2SGB-TUBES	MCM-2201.01-187 ----------	_____ _____ _____	ET	ISI-424 NDE-701	IN _____	00.75 00.043	50285	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2 SEE EDDY CURRENT EXAMINATION REPORT UNIT 2 (RFO 8 1993)
B16.023.000	******SGC STEAM	GENERATOR TUBING**** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
B16.023.001	2SGC-TUBES	MCM-2201.01-187 ----------	_____ _____ _____	ET	ISI-424 NDE-701	IN _____	00.75 00.043	50379	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2 SEE EDDY CURRENT EXAMINATION REPORT UNIT 2 (RFO 8 1993)
B16.024.000	******SGD STEAM	GENERATOR TUBING**** **********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16.024.001	2SGD-TUBES	MCM-2201.01-187		ET	ISI-424 NDE-701	IN	00.75 00.043	50379	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2 SEE EDDY CURRENT EXAMINATION REPORT UNIT 2 (RFO 8 1993)

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C01.000.000	*******CLASS 2	PRESSURE RETAINING** WELDS IN VESSELS****	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
C01.010.000	*********SHELL	CIRCUMFERENTIAL***** WELDS**********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____
C01.020.000	**********HEAD	CIRCUMFERENTIAL***** WELDS**********	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C02.000.000	******PRESSURE	RETAINING NOZZLE**** WELDS IN VESSELS****		***	*******	*****	__.__ __.___	*****	**********
C02.010.000	*******NOZZLES	IN VESSELS********** **********		***	*******	*****	__.__ __.___	*****	1/2" NOMINAL THICKNESS AND**** LESS**********
C02.010.001	2RHR-2A-INLET	MCM 1201.06-22		PT	NDE-35	SS	14.00 00.438	-----	RHR HEAT EXCHANGER 2A INLET NOZ. A AND REINFORCING PADS
C02.010.002	2RHR-2A-OUTLET	MCM 1201.06-22		PT	NDE-35	SS	14.00 00.438	-----	RHR HEAT EXCHANGER 2A OUTLET NOZ. B AND REINFORCING PADS
C02.021.000	********NOZZLE	TO SHELL OR HEAD**** WELDS**********		***	*******	*****	__.__ __.___	*****	**********
C02.021.009A	2SGC-06A-AFW	MCM 1201.01-480 MCM 2201.01-013		MT	NDE-25	CS	06.00 03.890	-----	REF. PIR 0-M91-0174 FOR OUT.8, 3/11/92 LET. FROM T.L. TUCKER
C02.022.000	********NOZZLE	INSIDE RADIUS******* SECTION**********		***	*******	*****	__.__ __.___	*****	**********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C03.000.000	*******CLASS 2	INTEGRAL ATTACHMENTS**********	_____	***	*******	*****	__.__	*****	**********
			_____		_____	_____	__.___		**********
			_____						_____
									_____
C03.040.000	********PIPING	INTEGRALLY WELDED ATTACHMENT**********	_____	***	*******	*****	__.__	*****	**********
			_____		_____	_____	__.___		**********
			_____						_____
									_____

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C04.000.000	******PRESSURE	RETAINING BOLTING*** > 2 INCH IN DIAMETER	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	********** ********** _____ _____

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.000.000	******PRESSURE	RETAINING WELDS IN** PIPING**********		***	*******	*****	__.__	*****	**********
C05.010.000	CLASS 2 PIPING	1/2" AND LESS******* NOMINAL WALL THICK.*		***	*******	*****	__.__	*****	**********
C05.011.000	**********	CIRCUMFERENTIAL WELD **********		***	*******	*****	__.__	*****	**********
C05.011.021	2CA2FW52-13	MCFI-2CA-52 MC 2592-1.0		MT	NDE-25	CS	06.00 00.432	-----	----------
C05.011.022	2CA2FW52-15	MCFI-2CA-52 MC 2592-1.0		MT	NDE-25	CS	06.00 00.432	-----	----------
C05.011.024	2CA2FW53-22	MCFI-2CA-53 MC 2592-1.0		MT	NDE-25	CS	06.00 00.432	-----	----------
C05.011.025	2CA2FW53-23	MCFI-2CA-53 MC 2592-1.0		MT	NDE-25	CS	06.00 00.432	-----	----------
C05.011.026	2CA2FW53-24	MCFI-2CA-53 MC 2592-1.0		MT	NDE-25	CS	06.00 00.432	-----	----------

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.057	2CF2FW46-10	MCFI-2CF-46 MC 2591-1.1		MT	NDE-25	CS	06.00 00.432	-----	
C05.011.058	2CF2FW46-16	MCFI-2CF-46 MC 2591-1.1		MT	NDE-25	CS	06.00 00.432	-----	
C05.011.059	2CF2FW46-11	MCFI-2CF-46 MC 2591-1.1		MT	NDE-25	CS	06.00 00.432	-----	
C05.011.244	2ND2F-173	MCFI-2ND-8 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.245	2ND2F-292	MCFI-2ND-8 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.246	2ND2F-294	MCFI-2ND-8 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.247	2ND2F-186	MCFI-2ND-9 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.248	2ND2F-188	MCFI-2ND-9 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.249	2ND2F-189	MCFI-2ND-9 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.250	2ND2F-191	MCFI-2ND-9 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.251	2ND2F-199	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.252	2ND2F-323	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.253	2ND2F-215	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.254	2ND2F-321	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.255	2ND2F-322	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.256	2ND2F-324	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.257	2ND2F-367	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.258	2ND2F-219	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.259	2ND2F-221	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.260	2ND2F-222	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.261	2ND2F-223	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.262	2ND2F-224	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	14.00 00.438	-----	
C05.011.263	2ND2F-225	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	14.00 00.438	-----	
C05.011.264	2ND2F-220	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.265	2ND2F-240	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.266	2ND2F-230	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.267	2ND2F-231	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.268	2ND2F-232	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.269	2ND2F-216	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.270	2ND2F-239	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.271	2ND2F-242	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.272	2ND2F-246	MCFI-2ND-12 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.273	2ND2F-355	MCFI-2ND-12 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.274	2ND2F-247	MCFI-2ND-12 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.275	2ND2F-277	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.276	2ND2F-269	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.277	2ND2F-271	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.278	2ND2F-263	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.279	2ND2F-276	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.280	2ND2F-274	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.283	2ND2FW15-6	MCFI-2ND-15 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.285	2ND2FW16-15	MCFI-2ND-16 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.286	2ND2FW16-13	MCFI-2ND-16 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.287	2ND2FW16-16	MCFI-2ND-16 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.011.289	2ND2FW17-12	MCFI-2ND-17 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.290	2ND2FW17-20	MCFI-2ND-17 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.291	2ND2FW17-3	MCFI-2ND-17 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.294	2ND2FW17-14	MCFI-2ND-17 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.296	2ND2FW18-6	MCFI-2ND-18 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.300	2ND2FW18-2	MCFI-2ND-18 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.301	2ND2FW18-3	MCFI-2ND-18 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.302	2ND2FW19-1	MCFI-2ND-19 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.303	2ND2FW19-5	MCFI-2ND-19 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.304	2ND2FW19-3	MCFI-2ND-19 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.305	2ND2FW19-8	MCFI-2ND-19 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.306	2ND2FW19-12	MCFI-2ND-19 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.311	2ND2FW20-10	MCFI-2ND-20 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.011.356	2NI2F-610	MCFI-2NI-21 MC 2562-3.1		PT	NDE-35	SS	18.00 00.312	-----	
C05.011.357	2NI2F-611	MCFI-2NI-21 MC 2562-3.1		PT	NDE-35	SS	18.00 00.312	-----	
C05.011.358	2NI2F-617	MCFI-2NI-21 MC 2562-3.1		PT	NDE-35	SS	18.00 00.312	-----	
C05.011.370	2RN2F-1500	MCFI-2RN-38 MC 2574-4.0		MT	NDE-25	CS	06.00 00.280	-----	
C05.011.607	2SV2FW9-8	MCFI-2SV-9 MC 2593-1.3		MT	NDE-25	CS	06.00 00.432	-----	
C05.011.608	2SV2FW9-4	MCFI-2SV-9 MC 2593-1.3		MT	NDE-25	CS	06.00 00.432	-----	
C05.012.000	**********	LONGITUDINAL WELD***		***	*******	*****	__.__ __.___	*****	**********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.012.211	2ND2F-186L	MCFI-2ND-9 MC 2561-1.0		PT	NDE-35	SS	08.90 00.250	-----	
C05.012.212	2ND2F-188L	MCFI-2ND-9 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.012.213	2ND2F-199L	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.012.214	2ND2F-322L	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.012.215	2ND2F-324L	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.012.216	2ND2F-367L	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 00.375	-----	
C05.012.217	2ND2F-231L	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.012.218	2ND2F-242L	MCFI-2ND-11 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.012.219	2ND2F-269L	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.012.220	2ND2F-271L	MCFI-2ND-13 MC 2561-1.0		PT	NDE-35	SS	08.00 00.250	-----	
C05.012.351	2NI2F-610L	MCFI-2NI-21 MC 2562-3.1		PT	NDE-35	SS	18.00 00.312	-----	
C05.012.352	2NI2F-611L	MCFI-2NI-21 MC 2562-3.1		PT	NDE-35	SS	18.00 00.312	-----	
C05.012.353	2NI2F-617L	MCFI-2NI-21 MC 2562-3.1		PT	NDE-35	SS	18.00 00.312	-----	
C05.012.800	2VQ2FH5-4L	MCFI-2VQ-5 MC 2585-1.0		PT	NDE-35	SS	06.00 00.134	-----	
C05.012.801	2VQ2FH5-11L	MCFI-2VQ-5 MC 2585-1.0		PT	NDE-35	SS	06.00 00.134	-----	
C05.012.802	2VQ2FH5-15L	MCFI-2VQ-5 MC 2585-1.0		PT	NDE-35	SS	06.00 00.134	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.020.000	CLASS 2 PIPING	> 1/2" NOMINAL****** THICKNESS**********		***	*******	*****	__.__ __.___	*****	********** **********
C05.021.000	**********	CIRCUMFERENTIAL***** WELDS**********		***	*******	*****	__.__ __.___	*****	********** **********
C05.021.050	2CF2FW13-1	MCFI-2CF-13 MC-2591-1.1		UT	NDE-600	CS	16.00 00.844	50329	(USE SIZING PROCEDURE 670) OUT.8 DON'T REPORT THIS INSP. OUT.1 & JULY 83 BASELINE OUT.8 NON-ISI EXAMINATION
C05.021.052	2CF2FW13-12	MCFI-2CF-13 MC-2591-1.1		UT	NDE-600	CS	16.00 00.844	50329	(USE SIZING PROCEDURE 670) OUT.8 DON'T REPORT THIS INSP. OUT.1 & JULY 83 BASELINE OUT.8 NON-ISI EXAMINATION
C05.021.054	2CF2FW15-1	MCFI-2CF-15 MC-2591-1.1		UT	NDE-600	CS	16.00 00.844	50329	(USE SIZING PROCEDURE 670) OUT.8 DON'T REPORT THIS INSP. OUT.1 & JULY 83 BASELINE OUT.8 NON-ISI EXAMINATION
C05.021.056	2CF2FW15-12	MCFI-2CF-15 MC-2591-1.1		UT	NDE-600	CS	16.00 00.844	50329	(USE SIZING PROCEDURE 670) OUT.8 DON'T REPORT THIS INSP. OUT.1 & JULY 83 BASELINE OUT.8 NON-ISI EXAMINATION
C05.021.202	2ND2F-243	MCFI-2ND-10 MC 2561-1.0		UT	NDE-600	SS	12.00 01.125	50219	92.3% COVERAGE
C05.021.202A	2ND2F-243	MCFI-2ND-10 MC 2561-1.0		PT	NDE-35	SS	12.00 01.125	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.662A	2SM2FW8-5	MCFI-2SM-8 MC 2593-1.0		MT	NDE-25	CS	36.00 02.437	-----	36"MIN.W.2.437 FROM VALVE SIDE OUT.8 ADDED PER IWC-2430(A) PIR 2M92-0102
C05.021.663A	2SM-5A-D	MCFI-2SM-8 MC 2SM-5A		MT	NDE-25	CS	10.00 01.500	-----	OUT.8 ADDED PER IWC-2430(A) PIR 2M92-0102
C05.021.664A	2SM-5A-E	MCFI-2SM-8 MC 2SM-5A		MT	NDE-25	CS	10.00 01.500	-----	OUT.8 ADDED PER IWC-2430(A) PIR 2M92-0102
C05.021.665A	2SM-5A-F	MCFI-2SM-8 MC 2SM-5A		MT	NDE-25	CS	10.00 01.500	-----	OUT.8 ADDED PER IWC-2430(A) PIR 2M92-0102
C05.021.677	2SM2D1-X	MCFI-2SM-4 MC 2593-1.3		UT	NDE-600	CS	34.00 01.250	40415	34"MIN.W.1.250,NOM.W.1.375 100% EXAMINED
C05.021.677A	2SM2D1-X	MCFI-2SM-4 MC 2593-1.3		MT	NDE-25	CS	34.00 01.250	-----	34"MIN.W.1.250,NOM.W.1.375
C05.021.679	2SM2FW-9-9	MCFI-2SM-9 MC 2593-1.3		UT	NDE-600	CS	36.00 02.437	50385	36"MIN.W.2.437 FROM VALVE SIDE 100% EXAMINED
C05.021.679A	2SM2FW-9-9	MCFI-2SM-9 MC 2593-1.3		MT	NDE-25	CS	36.00 02.437	-----	36"MIN.W.2.437 FROM VALVE SIDE PIR 2M92-0102

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.680	2SM-5D-D	MCFI-2SM-9 MC 2SM-5D		UT	NDE-600	CS	10.00 01.500	50249	100% EXAMINED
C05.021.680A	2SM-5D-D	MCFI-2SM-9 MC 2SM-5D		MT	NDE-25	CS	10.00 01.500	-----	
C05.021.681	2SM-5D-E	MCFI-2SM-9 MC 2SM-5D		UT	NDE-600	CS	10.00 01.500	50249	100% EXAMINED
C05.021.681A	2SM-5D-E	MCFI-2SM-9 MC 2SM-5D		MT	NDE-25	CS	10.00 01.500	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C06.020.000	**********	**VALVE BODY WELDS** **********		***	*******	*****	__.__ __.__		********** **********
C06.020.001	2SV-1-1	MCFI-2SV-9 MCM 1205.09-011		MT	NDE-25	CS	06.00 01.000		INTAKE TO VALVE BODY WELD
C06.020.002	2SV-1-2	MCFI-2SV-9 MCM 1205.09-011		MT	NDE-25	CS	06.00 01.000		VALVE BODY TO BONNET WELD
C06.020.003	2SV-19-1	MCFI-2SV-9 MCM 1205.09-011		MT	NDE-25	CS	06.00 01.000		INTAKE TO VALVE BODY WELD
C06.020.004	2SV-19-2	MCFI-2SV-9 MCM 1205.09-011		MT	NDE-25	CS	06.00 01.000		VALVE BODY TO BONNET WELD

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
D02.020.002	2MCA-SA-5075	MCSRD 2SA350		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E01.001.000	*******REACTOR	COOLANT PUMPS*******		***	*******	*****	__.__	*****	**********
		FLYWHEEL EXAMS******					__.___		**********
E01.001.003	2RCP-2C	MCM 1201.01-7		UT	ISI-117		__.__		ISI-117 CUT.2,4,6
					NDE-900		__.___		NDE-900 STARTING WITH CUT.7
									100% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E02.001.000	**********STEAM	GENERATOR TUBE EXAMS ON PREHEATER SECTION	_____ _____ _____	***	******* _____	***** _____	__.__ __.___	*****	ROW 45 THRU 49 AND PERIPHERAL TUBES, TO BE DONE EACH OUTAGE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E03.001.000	**********PIPE	RUPTURE PROTECTION		***	*******	*****	__.__ __.___	*****	********** **********
E03.001.003	2NC2FW22-6	MCFI-2NC-22 MC 2553-1.0		UT	NDE-610 NDE1001	SS	10.00 01.000	50209	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 98.6% EXAMINED
E03.001.003A	2NC2FW22-6	MCFI-2NC-22 MC 2553-1.0		PT	NDE-35	SS	10.00 01.000	-----	
E03.001.004	2NC2FW22-7	MCFI-2NC-22 MC 2553-1.0		UT	NDE-610 NDE1001	SS	10.00 01.000	50209	USE NDE-610 FOR MANUAL SCAN AND USE NDE-1001 FOR P-SCAN 100% EXAMINED
E03.001.004A	2NC2FW22-7	MCFI-2NC-22 MC 2553-1.0		PT	NDE-35	SS	10.00 01.000	-----	
E03.001.005	2NC2FW22-9	MCFI-2NC-22 MC 2553-1.0		UT	NDE-610 NDE1001	SS	10.00 01.000	50209	USE NDE-610 FOR MANUAL SCAN USE NDE-1001 FOR P-SCAN 96.9% EXAMINED
E03.001.005A	2NC2FW22-9	MCFI-2NC-22 MC 2553-1.0		PT	NDE-35	SS	10.00 01.000	-----	
E03.001.006	2NC2FW22-11	MCFI-2NC-22 MC 2553-1.0		UT	NDE-610 NDE1001	SS	10.00 01.000	50209	USE NDE-610 FOR MANUAL SCAN AND USE NDE-1001 FOR P-SCAN 100% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E03.001.006A	2NC2FW22-11	MCFI-2NC-22 MC 2553-1.0		PT	NDE-35	SS	1[illegible].00 01.000	-----	

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E04.001.000	**********STEAM	GENERATOR FEEDWATER MODIFICATION********		***	*******	*****	__.__	*****	**********
E04.001.011	2SGC			VT	ISI-350 QAL-14		__.__	-----	EXAMINATION REQUIRED AFTER INSTALLATION OF MODIFICATION ISI-350(OUT.1,4)

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E06.001.000	****THERMAL STRESS	PIPING EXAMINATIONS		***					****NRC BULLETIN 88-08********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E07.001.000	*** IGSCC CRACKING	IN SI ACCUMULATOR NOZZLES **********	_____ _____ _____	***	******* *******	***** _____	__.__ __.___	_____	******* NRC INFORMATION NOTICE NO.91-05 **********

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.01.000	*******CLASS 1	SUPPORTS********** **********							
F1.01.737	2PZR-LUGS	MCM 2201.01-16 EDSK-379438		VT	QAL-14				PRESSURIZER SUPPORT LUGS
F1.01.738	2PZR-BRACKETS	MCM 2201.01-16 EDSK-379350B		VT	QAL-14				PRESSURIZER SUPPORT BRACKETS
F1.02.000	*******CLASS 2	SUPPORTS********** **********							
F1.02.041	2-MCA-CA-084	MCSRD 2CAO		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.02.044	2-MCA-CA-088	MCSRD 2CAO		VT	QAL-14	-----	06.00	-----	SPRING HANGER
F1.02.045	2-MCA-CA-120	MCSRD 2CAO		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.056	2-MCA-CA-132	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	SPRING HANGER

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.057	2-MCA-CA-134	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.02.058	2-MCA-CA-139	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.02.059	2-MCA-CA-140	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	HYDRAULIC SNUBBER
F1.02.060	2-MCA-CA-141	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	SPRING HANGER
F1.02.061	2-MCA-CA-142	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	MECHANICAL & HYDRAULIC SNUBBER
F1.02.062	2-MCA-CA-144	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	HYDRAULIC SNUBBER
F1.02.063	2-MCA-CA-145	MCSRD 2CAP		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.178	2-MCA-VQ-5001	MCSRD 2VQ350		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.180	2-MCR-VQ-4002	2VQ202		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.02.184	2-MCA-VQ-5014	MCSRD 2VQ350		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.1[illegible]	2-MCA-VQ-5016	MCSRD 2VQ350		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.186	2-MCA-VQ-5017	MCSRD 2VQ350		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.187	2-MCA-VQ-5018	MCSRD 2VQ350		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.357	2-MCA-SV-053	MCSRD 2SVA		VT	QAL-14	-----	06.00	-----	HYDRAULIC SNUBBER
F1.02.358	2-MCA-SV-055	MCSRD 2SVA		VT	QAL-14	-----	06.00	-----	SPRING HANGER
F1.02.429	2-MCA-ND-5480	MCSRD 2FW-350		VT	QAL-14	-----	14.00	-----	MECHANICAL SNUBBER OUTAGE 1 ADDITIONAL SAMPLE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.430	2-MCA-ND-5482	MCSRD 2FW-350		VT	QAL-14	-----	14.00	-----	MECHANICAL SNUBBER
									OUTAGE 1 ADDITIONAL SAMPLE
F1.02.431	2-MCA-ND-5483	MCSRD 2FW-350		VT	QAL-14	-----	14.00	-----	MECHANICAL SNUBBER
F1.02.454	2-MCA-ND-5502	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.455	2-MCA-ND-5503	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.456	2-MCA-ND-5504	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.457	2-MCA-ND-5505	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.458	2-MCA-ND-5506	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.459	2-MCA-ND-5507	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.461	2-MCA-ND-5509	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.463	2-MCA-ND-5560	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	SPRING HANGER
F1.02.465	2-MCA-ND-5601	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.466	2-MCA-ND-5602	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.467	2-MCA-ND-5603	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.469	2-MCA-ND-5605	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.470	2-MCA-ND-5606	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.471	2-MCA-ND-5607	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.472	2-MCA-ND-5608	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.527	2-MCA-ND-6127	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.528	2-MCA-ND-6128	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.529	2-MCA-ND-6129	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.530	2-MCA-ND-6130	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.531	2-MCA-ND-6131	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.532	2-MCA-ND-6181	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	HYDRAULIC SNUBBER
F1.02.533	2-MCA-ND-6201	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.534	2-MCA-ND-6202	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.535	2-MCA-ND-6203	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.536	2-MCA-ND-6204	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.537	2-MCA-ND-6205	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.538	2-MCA-ND-6209	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.539	2-MCA-ND-6210	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.541	2-MCA-ND-6212	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.542	2-MCA-ND-6213	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.543	2-MCA-ND-6215	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.544	2-MCA-ND-6220	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.545	2-MCA-ND-6221	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.546	2-MCA-ND-6222	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.547	2-MCA-ND-6223	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	MECHANICAL SNUBBER
F1.02.548	2-MCA-ND-6224	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	MECHANICAL SNUBBER
F1.02.549	2-MCA-ND-6225	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.550	2-MCA-ND-6260	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	SPRING HANGER

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.551	2-MCA-ND-6280	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	HYDRAULIC SNUBBERS
F1.02.552	2-MCA-ND-6281	MCSRD 2ND-350		VT	QAL-14	-----	08.00	-----	MECHANICAL SNUBBERS
F1.02.553	2-MCA-ND-6001	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT OUTAGE 1 ADDITIONAL SAMPLE
F1.02.554	2-MCA-ND-6002	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.555	2-MCA-ND-6003	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.556	2-MCA-ND-6004	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.557	2-MCA-ND-6005	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.558	2-MCA-ND-6006	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.559	2-MCA-ND-6007	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.560	2-MCA-ND-6008	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.561	2-MCA-ND-6009	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	SPRING HANGER
F1.02.562	2-MCA-ND-6217	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.563	2-MCA-ND-6218	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.564	2-MCA-ND-6219	MCSRD 2ND-362		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.02.565	2-MCA-ND-5604	MCSRD 2ND-350		VT	QAL-14		08.00		RIGID SUPPORT
F1.02.652	2-MCA-NI-7003	MCSRD 2FW350		VT	QAL-14	-----	18.00	-----	SPRING HANGER

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.653	2-MCA-NI-7004	MCSRD 2FW350		VT	QAL-14	-----	18.00	-----	SPRING HANGER
F1.03.000	*******CLASS 3	SUPPORTS********** **********							
F1.03.099	2-MCA-CA-5611	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.100	2-MCA-CA-5613	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.101	2-MCA-CA-5614	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.102	2-MCA-CA-5615	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.103	2-MCA-CA-5616	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.104	2-MCA-CA-5617	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.105	2-MCA-CA-5618	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.106	2-MCA-CA-5619	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.107	2-MCA-CA-5621	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.108	2-MCA-CA-5622	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.109	2-MCA-CA-5624	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.110	2-MCA-CA-5625	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.111	2-MCA-CA-5626	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.112	2-MCA-CA-5627	MCSRD 2CA356		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.113	2-MCA-CA-5628	MCSRD 2CA356		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.03.114	2-MCA-CA-5629	MCSRD 2CA356		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.03.115	2-MCA-CA-5630	MCSRD 2CA356		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.03.116	2-MCA-CA-5632	MCSRD 2CA356		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.03.117	2-MCA-CA-5633	MCSRD 2CA356		VT	QAL-14	-----	08.00	-----	RIGID SUPPORT
F1.03.118	2-MCA-CA-5634	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.119	2-MCA-CA-5638	MCSRD 2CA356		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.03.120	2-MCA-CA-5639	MCSRD 2CA356		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.121	2-MCA-CA-5641	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.122	2-MCA-CA-5642	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.123	2-MCA-CA-5802	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.124	2-MCA-CA-5803	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.125	2-MCA-CA-5804	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.126	2-MCA-CA-5805	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.127	2-MCA-CA-5806	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.128	2-MCA-CA-5807	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.129	2-MCA-CA-5808	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.130	2-MCA-CA-5809	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.131	2-MCA-CA-5810	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.132	2-MCA-CA-5811	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.133	2-MCA-CA-5812	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.134	2-MCA-CA-5813	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.135	2-MCA-CA-5814	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.136	2-MCA-CA-5816	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.137	2-MCA-CA-5817	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.138	2-MCA-CA-5818	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.139	2-MCA-CA-5819	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.140	2-MCA-CA-5820	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.141	2-MCA-CA-5821	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.142	2-MCA-CA-5822	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.143	2-MCA-CA-5824	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.144	2-MCA-CA-5825	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.145	2-MCA-CA-5826	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.146	2-MCA-CA-5827	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.147	2-MCA-CA-5828	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.148	2-MCA-CA-5829	MCSRD 2CA356		VT	QAL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.205	2-MCA-SA-5075	MCSRD 2SA350		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.03.206	2-MCA-SA-5086	MCSRD 2SA350		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER

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

Final Inservice Inspection Plan (Pressure Testing) for Outage 8

McGUIR[redacted]NIT NUMBER 2
CLASS A (CATEGORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
B15.010.001	MC-2553-1.0	21	LEAK	VESSEL	UNIT 2 REACTOR	VT-2	QAL-15
B15.020.001	MC-2553-2.0	15	LEAK	VESSEL	PRESSURIZER	VT-2	QAL-15
B15.030.001	MC-2553-1.0	21	LEAK	VESSEL	STEAM GENERATOR 2A	VT-2	QAL-15
B15.030.002	MC-2553-1.0	21	LEAK	VESSEL	STEAM GENERATOR 2B	VT-2	QAL-15
B15.030.003	MC-2553-1.0	21	LEAK	VESSEL	STEAM GENERATOR 2C	VT-2	QAL-15
B15.030.004	MC-2553-1.0	21	LEAK	VESSEL	STEAM GENERATOR 2D	VT-2	QAL-15
B15.050.001	MC-2553-1.0	21	LEAK	PIPING	NC SYSTEM	VT-2	QAL-15
B15.050.002	MC-2553-2.0	15	LEAK	PIPING	NC SYSTEM	VT-2	QAL-15
B15.050.004	MC-2554-1.0	08	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
B15.050.005	MC-2554-1.1	04	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
B15.050.006	MC-2554-1.2	14	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
B15.050.007	MC-2561-1.0	14	LEAK	PIPING	ND SYSTEM	VT-2	QAL-15
B15.050.008	MC-2562-1.0	15	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15
B15.050.009	MC-2562-2.0	10	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15
B15.050.010	MC-2562-2.1	08	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15
B15.050.011	MC-2562-3.0	10	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15
B15.051.007	MC-2561-1.0	15	HYDRO	PIPING	ND SYSTEM	VT-2	QAL-15

McGUI[redacted]NIT NUMBER 2
CLASS A (CATEGORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
B15.051.009	MC-2562-2.0	10	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
B15.051.010	MC-2562-2.1	08	HYDRO	PIPING	[redacted]YSTEM	VT-2	QAL-15
B15.051.011	MC-2562-3.0	09	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
B15.051.012	MC-2562-3.1	03	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
B15.060.001	MC-2553-1.0	21	LEAK	PUMP	RCP-2A	VT-2	QAL-15
B15.060.002	MC-2553-1.0	21	LEAK	PUMP	RCP-2B	VT-2	QAL-15
B15.060.003	MC-2553-1.0	21	LEAK	PUMP	RCP-2C	VT-2	QAL-15
B15.060.004	MC-2553-1.0	21	LEAK	PUMP	RCP-2D	VT-2	QAL-15

McGUI[illegible]NIT NUMBER 2
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.010.001	MC-2563-1.0	14	LEAK	VESSEL	CONT SPRAY HX 2A	VT-2	QAL-15
C07.010.002	MC-2563-1.0	14	LEAK	VESSEL	CONT SPRAY HX 2B	VT-2	QAL-15
C07.011.001	MC-2591-1.1	11	HYDRO	VESSEL	STEAM GENERATOR 2A	VT-2	QAL-15
C07.011.002	MC-2591-1.1	11	HYDRO	VESSEL	STEAM GENERATOR 2B	VT-2	QAL-15
C07.011.003	MC-2591-1.1	11	HYDRO	VESSEL	STEAM GENERATOR 2C	VT-2	QAL-15
C07.011.004	MC-2591-1.1	11	HYDRO	VESSEL	STEAM GENERATOR 2D	VT-2	QAL-15
C07.011.011	MC-2561-1.0	14	HYDRO	VESSEL	RHR HEAT EXCHGR 2A	VT-2	QAL-15
C07.011.012	MC-2561-1.0	14	HYDRO	VESSEL	RHR HEAT EXCHGR 2B	VT-2	QAL-15
C07.011.013	MC-2562-2.0	10	HYDRO	VESSEL	SFTY INJ ACC TANK 2A	VT-2	QAL-15
C07.011.014	MC-2562-2.0	10	HYDRO	VESSEL	SFTY INJ ACC TANK 2B	VT-2	QAL-15
C07.011.015	MC-2562-2.1	08	HYDRO	VESSEL	SFTY INJ ACC TANK 2C	VT-2	QAL-15
C07.011.016	MC-2562-2.1	08	HYDRO	VESSEL	SFTY INJ ACC TANK 2D	VT-2	QAL-15
C07.020.001	MC-2554-3.1	09	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
C07.020.002	MC-2561-1.0	14	LEAK	PIPING	ND SYSTEM	VT-2	QAL-15
C07.020.003	MC-2562-3.0	09	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15
C07.020.004	MC-2562-3.1	03	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15
C07.020.005	MC-2563-1.0	14	LEAK	PIPING	NS SYSTEM	VT-2	QAL-15

McGU[illegible]IT NUMBER 2
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.020.006	MC-2554-2.0	14	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
C07.020.007	MC-2554-3.0	11	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
C07.020.012	MC-1554-5.0	13	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15
C07.021.002	MC-2553-2.0	15	HYDRO	PIPING	NC SYSTEM	VT-2	QAL-15
C07.021.004	MC-2553-4.0	13	HYDRO	PIPING	NC SYSTEM	VT-2	QAL-15
C07.021.005	MC-2554-1.0	07	HYDRO	PIPING	NV SYSTEM	VT-2	QAL-15
C07.021.006	MC-2554-1.1	03	HYDRO	PIPING	NV SYSTEM	VT-2	QAL-15
C07.021.008	MC-2554-1.3	04	HYDRO	PIPING	NV SYSTEM	VT-2	QAL-15
C07.021.010	MC-2554-3.0	11	HYDRO	PIPING	NV SYSTEM	VT-2	QAL-15
C07.021.016	MC-2556-3.0	10	HYDRO	PIPING	NB SYSTEM	VT-2	QAL-15
C07.021.017	MC-2561-1.0	14	HYDRO	PIPING	ND SYSTEM	VT-2	QAL-15
C07.021.018	MC-2562-1.0	14	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
C07.021.019	MC-2562-2.0	10	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
C07.021.020	MC-2562-2.1	08	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
C07.021.021	MC-2562-3.1	03	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
C07.021.023	MC-2563-1.0	14	HYDRO	PIPING	NS SYSTEM	VT-2	QAL-15
C07.021.027	MC-2571-1.0	10	HYDRO	PIPING	FW SYSTEM	VT-2	QAL-15

McGU[redacted]T NUMBER 2
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.021.028	MC-2572-1.0	13	HYDRO	PIPING	NM SYSTEM	VT-2	QAL-15
C07.021.034	MC-2584-1.0	06	HYDRO	PIPING	BW SYSTEM	VT-2	QAL-15
C07.021.035	MC-2591-1.1	11	HYDRO	PIPING	CF SYSTEM	VT-2	QAL-15
C07.021.036	MC-2592-1.0	11	HYDRO	PIPING	CA SYSTEM	VT-2	QAL-15
C07.021.037	MC-2593-1.0	17	HYDRO	PIPING	SV/SM SYSTEM	VT-2	QAL-15
C07.021.038	MC-2593-1.2	11	HYDRO	PIPING	TE/SA SYSTEM	VT-2	QAL-15
C07.021.039	MC-2593-1.3	11	HYDRO	PIPING	SM/SV SYSTEM	VT-2	QAL-15
C07.021.040	MC-2617-1.0	07	HYDRO	PIPING	YA SYSTEM	VT-2	QAL-15
C07.021.041	MC-2562-3.0	10	HYDRO	PIPING	NI SYSTEM	VT-2	QAL-15
C07.021.043	MC-2565-1.0	19	HYDRO	PIPING	WL SYSTEM	VT-2	QAL-15
C07.021.044	MC-2565-1.1	08	HYDRO	PIPING	WL SYSTEM	VT-2	QAL-15
C07.021.045	MC-2604-3.0	15	HYDRO	PIPING	RV SYSTEM	VT-2	QAL-15
C07.021.046	MC-1599-2.2	08	HYDRO	PIPING	RF SYSTEM	VT-2	QAL-15
C07.021.047	MC-2605-2.2	02	HYDRO	PIPING	VS SYSTEM	VT-2	QAL-15
C07.021.049	MC-2605-1.14	00	HYDRO	PIPING	VI SYSTEM	VT-2	QAL-15
C07.021.050	MC-2605-1.16	00	HYDRO	PIPING	VI SYSTEM	VT-2	QAL-15
C07.021.051	MC-2605-1.2	14	HYDRO	PIPING	VI SYSTEM	VT-2	QAL-15

McGUIRE UNIT NUMBER 2
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.021.052	MC-2605-1.3	07	HYDRO	PIPING	VI SYSTEM	VT-2	QAL-15
C07.021.053	MC-2558-4.0	09	HYDRO	PIPING	NF SYSTEM	VT-2	QAL-15
C07.030.001	MC-2554-3.1	09	LEAK	PUMP	CENT CHRG PUMP 2A	VT-2	QAL-15
C07.030.002	MC-2554-3.1	09	LEAK	PUMP	CENT CHRG PUMP 2B	VT-2	QAL-15
C07.030.005	MC-2563-1.0	14	LEAK	PUMP	CONT SPRAY PUMP 2A	VT-2	QAL-15
C07.030.006	MC-2563-1.0	14	LEAK	PUMP	CONT SPRAY PUMP 2B	VT-2	QAL-15
C07.030.007	MC-2562-3.0	09	LEAK	PUMP	SAFETY INJ PUMP 2A	VT-2	QAL-15
C07.030.008	MC-2562-3.0	09	LEAK	PUMP	SAFETY INJ PUMP 2B	VT-2	QAL-15
C07.021.001	MC-2554-3.0	11	HYDRO	PUMP	RECP CHGR PUMP/ACCUM	VT-2	QAL-15
C07.031.004	MC-2561-1.0	14	HYDRO	PUMP	RESID HEAT REM 2A	VT-2	QAL-15
C07.031.005	MC-2561-1.0	14	HYDRO	PUMP	RESID HEAT REM 2B	VT-2	QAL-15

McGUI[redacted]T NUMBER 2
CLASS C (CATEGORY D-B) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
D02.011.024	MC-2609-3.0	19	LEAK	PIPING	FD SYSTEM	VT-2	QAL-15
D02.011.025	MC-2609-3.1	12	LEAK	PIPING	FD SYSTEM	VT-2	QAL-15
D02.012.003	MC-2573-1.1	05	HYDRO	PIPING	KC SYSTEM	VT-2	QAL-15
D02.012.011	MC-2574-1.1	13	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.012	MC-2574-2.0	21	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.013	MC-2574-2.1	12	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.014	MC-2574-3.0	21	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.015	MC-2574-3.1	13	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.017	MCFD-2592-1.0	0	HYDRO	PIPING	CA SYSTEM	VT-2	QAL-15
D02.012.018	MC-2592-1.1	11	HYDRO	PIPING	CA SYSTEM	VT-2	QAL-15
D02.012.020	MC-2609-1.0	09	HYDRO	PIPING	KD SYSTEM	VT-2	QAL-15
D02.012.021	MC-2609-1.1	05	HYDRO	PIPING	KD SYSTEM	VT-2	QAL-15
D02.012.030	MC-1574-1.1	16	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.031	MC-1574-3.0	32	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15
D02.012.032	MC-1574-2.0	32	HYDRO	PIPING	RN SYSTEM	VT-2	QAL-15

McGU[redacted]T NUMBER 2
CLASS C (CATEGORY D-C) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
D03.011.001	MC-2570-1.0	11	LEAK	PIPING	KF SYSTEM	VT-2	QAL-15
D03.012.001	MC-2570-1.0	11	HYDRO	PIPING	KF SYSTEM	VT-2	QAL-15

5.0 Results Of Inspections Performed During Outage 8

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 5.1. All examinations revealing reportable indications are described in further detail in Section 6.

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	=	L Limited N No
Geo. Ref. (Geometric Reflector applies only to UT)	=	Y Yes N No
Comments	=	General and/or Detail Description

5.1 Limited examinations (i.e., less than 90% of the required examination coverage obtained) identified during Outage 8 are shown below:

Item Number
B01.011.003
B01.011.004
B01.021.002
B01.022.001
B01.022.002
B01.022.003
B01.022.004
B01.022.005
B01.022.006
B03.090.001
B03.090.001A
B03.090.002
B03.090.002A
B03.090.003
B03.090.003A
B03.090.004
B03.090.004A
B03.090.005
B03.090.005A
B03.090.006
B03.090.006A
B03.090.007
B03.090.007A
B03.090.008
B03.090.008A
B03.100.001
B03.100.002
B03.100.003
B03.100.004
B03.100.005
B03.100.006
B03.100.007
B03.100.008
B09.011.038

A request for relief will be submitted for the item numbers listed above under a different submittal.

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B01.011.001	2RPV-W05	08/03/93	REC	_	N	100% EXAMINED
B01.011.002	2RPV-W04	08/09/93	REC	_	Y	99.9% EXAMINED
B01.011.003	2RPV-W03	08/03/93	REC	L	N	LIMITED 43.6% EXAMINED
B01.011.004	2RPV-W06	07/29/93	REC	L	N	LIMITED 48.2% EXAMINED
B01.021.002	2RPV-W01	08/03/93	REP	L	N	LIM.53.4% EXAM,PIP 2M93-0717
B01.022.001	2RPV-W02-01	08/01/93	CLR	L	N	86.6% EXAMINED
B01.022.002	2RPV-W02-02	08/09/93	REC	L	Y	LIMITED 83.0% EXAMINED
B01.022.003	2RPV-W02-03	08/02/93	CLR	L	N	LIMITED 86.6% EXAMINED
B01.022.004	2RPV-W02-04	08/02/93	CLR	L	N	LIMITED 76.4% EXAMINED
B01.022.005	2RPV-W02-05	08/01/93	CLR	L	N	LIMITED 86.6% EXAMINED
B01.022.006	2RPV-W02-06	08/01/93	CLR	L	N	LIMITED 86.6% EXAMINED
B01.030.001	2RPV-W07	07/13/93		_	N	OT.8 180-360,PIP 2M93-0674
B01.030.002	2RPV-W07	08/03/93	REC	_	Y	CAL BLOCK 50304,94.2% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B03.090.001	2RPV-M11	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.001A	2RPV-M11	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.002	2RPV-M12	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.002A	2RPV-M12	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.003	2RPV-M13	08/09/93	REC	L	N	LIMITED 72.1% EXAMINED
B03.090.003A	2RPV-M13	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.004	2RPV-M14	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.004A	2RPV-M14	08/09/93	REC	L	Y	LIMITED 72.1% EXAMINED
B03.090.005	2RPV-M15	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.090.005A	2RPV-M15	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.090.006	2RPV-M16	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.090.006A	2RPV-M16	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.090.007	2RPV-M17	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.090.007A	2RPV-M17	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.090.008	2RPV-M18	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B03.090.008A	2RPV-W18	08/09/93	REC	L	Y	LIMITED 43.7% EXAMINED
B03.100.001	2RPV-W11	07/28/93	CLR	L	N	LIMITED 64.6% EXAMINED
B03.100.002	2RPV-W12	08/09/93	REC	L	Y	LIMITED 64.6% EXAMINED
B03.100.003	2RPV-W13	08/09/93	REC	L	Y	LIMITED 64.6% EXAMINED
B03.100.004	2RPV-W14	07/27/93	CLR	L	N	LIMITED 64.6%EXAMINED
B03.100.005	2RPV-W15	08/09/93	REC	L	Y	LIMITED 87.7%EXAMINED
B03.100.006	2RPV-W16	08/09/93	REC	L	Y	LIMITED 87.7%EXAMINED
B03.100.007	2RPV-W17	08/09/93	REC	L	Y	LIMITED 87.7% EXAMINED
B03.100.008	2RPV-W18	08/09/93	REC	L	Y	LIMITED 87.7% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B05.010.001	2RPV-M11-SE	08/09/93	REC	_	Y	97.9% EXAMINED
B05.010.001A	2RPV-M11-SE	08/09/93	REC	_	Y	97.9% EXAMINED
B05.010.002	2RPV-M12-SE	08/09/93	REC	_	Y	97.9% EXAMINED
B05.010.002A	2RPV-M12-SE	07/28/93	CLR	_	N	97.9% EXAMINED
B05.010.003	2RPV-M13-SE	07/28/93	CLR	_	N	97.9% EXAMINED
B05.010.003A	2RPV-M13-SE	07/28/93	CLR	_	N	97.9% EXAMINED
B05.010.004	2RPV-M14-SE	07/27/93	CLR	_	N	97.9% EXAMINED
B05.010.004A	2RPV-M14-SE	07/27/93	CLR	_	N	97.9% EXAMINED
B05.010.005	2RPV-M15-SE	08/09/93	REC	_	Y	100% EXAMINED
B05.010.005A	2RPV-M15-SE	08/09/93	REC	_	Y	100% EXAMINED
B05.010.006	2RPV-M16-SE	07/28/93	CLR	_	N	100% EXAMINED
B05.010.006A	2RPV-M16-SE	07/28/93	CLR	_	N	100% EXAMINED
B05.010.007	2RPV-M17-SE	07/28/93	CLR	_	N	100% EXAMINED
B05.010.007A	2RPV-M17-SE	07/28/93	CLR	_	N	100% EXAMINED
B05.010.008	2RPV-M18-SE	08/09/93	REC	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B05.010.008A	2RPV-W18-SE	08/09/93	REC	_	N	100% EXAMINED
B05.020.005	2PZR-4BSE	08/16/93	CLR	_	N	100%EXAMINED
B05.020.005A	2PZR-4BSE	08/11/93	CLR	_	_	_____
B05.020.006	2PZR-4CSE	08/16/93	CLR	_	_	100% EXAMINED
B05.020.006A	2PZR-4CSE	08/11/93	CLR	_	_	_____
B05.050.001	2NC2F-1-1	08/04/93	REC	_	Y	CAL.BLOCK 50304, 100% EXAMINED
B05.050.001A	2NC2F-1-1	08/04/93	REC	_	Y	CAL. BLOCK 50304,100% EXAMINED
B05.050.004	2NC2F-1-8	08/09/93	REC	_	Y	97.9% EXAMINED
B05.050.004A	2NC2F-1-8	08/09/93	REC	_	Y	97.9% EXAMINED
B05.050.005	2NC2F-2-1	07/28/93	CLR	_	N	CAL. BLOCK 50304,100% EXAMINED
B05.050.005A	2NC2F-2-1	07/28/93	CLR	_	N	CAL. BLOCK 50304,100% EXAMINED
B05.050.008	2NC2F-2-8	07/28/93	REC	_	Y	97.9% EXAMINED
B05.050.008A	2NC2F-2-8	07/28/93	CLR	_	N	97.9% EXAMINED
B05.050.009	2NC2F-3-1	07/28/93	CLR	_	N	CAL. BLOCK 50304,100% EXAMINED
B05.050.009A	2NC2F-3-1	07/28/93	CLR	_	N	CAL. BLOCK 50304,100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B05.050.012	2NC2F-3-8	08/04/93	CLR	_	N	97.9% EXAMINED
B05.050.012A	2NC2F-3-8	08/04/93	CLR	_	N	97.9% EXAMINED
B05.050.013	2NC2F-4-1	08/04/93	REC	_	N	CAL. BLOCK 50304,100% EXAMINED
B05.050.013A	2NC2F-4-1	08/04/93	REC	_	N	CAL. BLOCK 50304,100% EXAMINED
B05.050.016	2NC2F-4-8	07/27/93	CLR	_	N	97.9% EXAMINED
B05.050.016A	2NC2F-4-8	07/27/93	CLR	_	N	97.9% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.040.037	2RPV-THREAD-37	07/12/93	CLR	_	N	100% EXAMINED
B06.040.038	2RPV-THREAD-38	07/12/93	CLR	_	N	100% EXAMINED
B06.040.039	2RPV-THREAD-39	07/12/93	CLR	_	N	100% EXAMINED
B06.040.040	2RPV-THREAD-40	07/12/93	CLR	_	N	100% EXAMINED
B06.040.041	2RPV-THREAD-41	07/12/93	CLR	_	N	100% EXAMINED
B06.040.042	2RPV-THREAD-42	07/12/93	CLR	_	N	100% EXAMINED
B06.040.043	2RPV-THREAD-43	07/12/93	CLR	_	N	100% EXAMINED
B06.040.044	2RPV-THREAD-44	07/12/93	CLR	_	N	97.44% EXAMINED
B06.040.045	2RPV-THREAD-45	07/12/93	CLR	_	N	100% EXAMINED
B06.040.046	2RPV-THREAD-46	07/12/93	CLR	_	N	100% EXAMINED
B06.040.047	2RPV-THREAD-47	07/12/93	CLR	_	N	100% EXAMINED
B06.040.048	2RPV-THREAD-48	07/12/93	CLR	_	N	100% EXAMINED
B06.040.049	2RPV-THREAD-49	07/12/93	CLR	_	N	100% EXAMINED
B06.040.050	2RPV-THREAD-50	07/12/93	CLR	_	N	100% EXAMINED
B06.040.051	2RPV-THREAD-51	07/12/93	CLR	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.040.052	2RPV-THREAD-52	07/12/93	CLR	_	N	100% EXAMINED
B06.040.053	2RPV-THREAD-53	07/12/93	CLR	_	N	100% EXAMINED
B06.040.054	2RPV-THREAD-54	07/12/93	CLR	_	N	100% EXAMINED
B06.180.004	2RCP-2D-F	07/19/93	CLR	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B08.020.005	2PZR-W13D	08/16/93	CLR	_	_	
B08.020.006	2PZR-W14A	08/11/93	CLR	_	_	
B08.020.007	2PZR-W14B	08/11/93	CLR	_	_	
B08.020.008	2PZR-W14C	08/11/93	CLR	_	_	
B08.020.009	2PZR-W14D	08/11/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.011.035	2NC2FW13-1	08/16/93	CLR	_	N	100% EXAMINED
B09.011.035A	2NC2FW13-1	08/11/93	CLR	_	_	---- --------
B09.011.036	2NC2FW13-19	08/16/93	REC	_	Y	100% EXAMINED
B09.011.036A	2NC2FW13-19	08/11/93	CLR	_	_	_____
B09.011.037	2NC2FW13-8	08/16/93	CLR	_	N	100% EXAMINED
B09.011.037A	2NC2FW13-8	08/11/93	CLR	_	_	_____
B09.011.038	2NC2FW2-1	08/02/93	REC	L	Y	LIMITED 72.7% EXAMINED
B09.011.038A	2NC2FW2-1	07/26/93	CLR	L	_	LIMITED 73% EXAMINED
B09.011.042	2NC2FW22-9	07/27/93	CLR	_	N	96.9%EXAMINED
B09.011.042A	2NC2FW22-9	07/08/93	CLR	_	_	_____
B09.011.043	2NC2FW22-6	07/27/93	CLR	_	N	98.6% EXAMINED
B09.011.043A	2NC2FW22-6	07/08/93	CLR	_	_	_____
B09.011.044	2NC2FW16-6	07/26/93	REC	_	N	90.6% EXAMINED
B09.011.044A	2NC2FW16-6	07/19/93	CLR	_	_	_____
B09.011.060	2NC2FW53-17	08/16/93	CLR	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.011.060A	2NC2FW53-17	08/11/93	CLR	_	_	
B09.011.076	2NC2FW53-12	08/16/93	CLR	_	N	100% EXAMINED
B09.011.076A	2NC2FW53-12	08/11/93	CLR	_	_	
B09.011.076B	2NC2FW53-12	08/16/93	CLR	_	N	100% EXAMINED
B09.011.077	2NC2FW53-13	08/16/93	CLR	_	N	100% EXAMINED
B09.011.077A	2NC2FW53-13	08/11/93	CLR	_	_	
B09.011.077B	2NC2FW53-13	08/16/93	CLR	_	N	100% EXAMINED
B09.011.078	2NC2FW53-26	08/16/93	REC	_	Y	100% EXAMINED
B09.011.078A	2NC2FW53-26	08/11/93	CLR	_	_	
B09.011.078B	2NC2FW53-26	08/16/93	CLR	_	N	100% EXAMINED
B09.011.079	2NC2FW61-1	08/16/93	CLR	_	_	100% EXAMINED
B09.011.079A	2NC2FW61-1	08/11/93	CLR	_	_	
B09.011.079B	2NC2FW61-1	08/16/93	CLR	_	N	100% EXAMINED
B09.011.302	2ND2F-4	07/27/93	REC	_	Y	100% EXAMINED
B09.011.302A	2ND2F-4	07/26/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.011.303	2ND2F-6	08/04/93	REC	_	Y	100% EXAMINED
B09.011.303A	2ND2F-6	07/26/93	CLR	_	_	_____
B09.011.428	2NI2F-871	07/26/93	REC	_	Y	100% EXAMINED
B09.011.428A	2NI2F-871	07/19/93	CLR	_	_	_____
B09.011.431	2NI2FW85-13	08/11/93	REC	_	N	100% EXAMINED
B09.011.431A	2NI2FW85-13	07/26/93	CLR	_	_	_____
B09.011.457	2NI2FW85-1	08/11/93	REC	_	Y	100% EXAMINED
B09.011.457A	2NI2FW85-1	07/26/93	CLR	_	_	_____
B09.011.458	2NI2FW85-6	08/23/93	REC	_	Y	95.7% EXAMINED
B09.011.458A	2NI2FW85-6	07/26/93	CLR	_	_	_____
B09.011.459	2NI2FW85-14	08/11/93	REC	_	Y	100% EXAMINED
B09.011.459A	2NI2FW85-14	08/09/93	CLR	_	_	_____
B09.011.460	2NI2FW85-15	08/11/93	REC	_	Y	100% EXAMINED
B09.011.460A	2NI2FW85-15	08/09/93	CLR	_	_	_____
B09.021.043	2NC2FW62-16	08/11/93	CLR	_	_	_____

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.021.044	2NC2FW62-19	08/11/93	CLR	_	_	
B09.021.151	2NV2FW229-4	07/08/93	CLR	_	_	
B09.021.152	2NV2FW229-2	07/26/93	CLR	_	_	
B09.040.001	2NC2FW15-27	07/08/93	CLR	_	_	
B09.040.002	2NC2FW15-28	07/08/93	CLR	_	_	
B09.040.003	2NC2FW15-29	07/08/93	CLR	_	_	
B09.040.004	2NC2FW15-30	07/08/93	CLR	_	_	
B09.040.005	2NC2FW15-31	07/08/93	CLR	_	_	
B09.040.029	2NC2FW47-12	07/19/93	CLR	_	_	
B09.040.048	2NC2FW79-12	07/19/93	CLR	_	_	
B09.040.057	2NC2FW95-1	07/19/93	CLR	_	_	
B09.040.129	2NI2FW116-8	07/19/93	CLR	_	_	
B09.040.165	2NV2FW230-1	07/08/93	CLR	_	_	
B09.040.166	2NV2FW230-2	07/08/93	CLR	_	_	
B09.040.167	2NV2FW230-3	07/08/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.040.168	2NV2FW230-4	07/08/93	CLR	-	-	
B09.040.169	2NV2FW230-5	07/08/93	CLR	-	-	

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B13.010.001	2RPV-INTERIOR	08/15/93	REP	L	-	
B13.030.001	2RPV-CORE-SUP	07/27/93	REC	L	-	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B16.021.001	2SGA-TUBES	__/__/__		_	_	REPORT UNIT 2 (RFO 8 1993)
B16.022.001	2SGB-TUBES	__/__/__		_	_	REPORT UNIT 2 (RFO 8 1993)
B16.023.001	2SGC-TUBES	__/__/__		_	_	REPORT UNIT 2 (RFO 8 1993)
B16.024.001	2SGD-TUBES	__/__/__		_	_	REPORT UNIT 2 (RFO 8 1993)

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C02.010.001	2RHR-2A-INLET	10/26/92	CLR	_	N	
C02.010.002	2RHR-2A-OUTLET	10/26/92	CLR	_	N	
C02.021.009A	2SGC-06A-AFW	08/04/93	CLR	_	N	

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.021	2CA2FW52-13	08/04/93	CLR	-	-	
C05.011.022	2CA2FW52-15	08/04/93	CLR	-	-	
C05.011.024	2CA2FW53-22	08/04/93	CLR	-	-	
C05.011.025	2CA2FW53-23	08/04/93	CLR	-	-	
C05.011.026	2CA2FW53-24	08/04/93	CLR	-	-	
C05.011.057	2CF2FW46-10	06/04/92	CLR	-	-	
C05.011.058	2CF2FW46-16	06/04/92	CLR	-	-	
C05.011.059	2CF2FW46-11	06/04/92	CLR	-	-	
C05.011.244	2ND2F-173	10/27/92	CLR	-	-	
C05.011.245	2ND2F-292	11/18/92	CLR	-	-	
C05.011.246	2ND2F-294	11/18/92	CLR	-	-	
C05.011.247	2ND2F-186	10/26/92	CLR	-	-	
C05.011.248	2ND2F-188	10/26/92	CLR	-	-	
C05.011.249	2ND2F-189	10/26/92	CLR	-	-	
C05.011.250	2ND2F-191	10/26/92	REC	-	-	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.251	2ND2F-199	10/27/92	CLR	_	_	
C05.011.252	2ND2F-323	11/12/92	CLR	_	_	
C05.011.253	2ND2F-215	10/27/92	CLR	_	_	
C05.011.254	2ND2F-321	11/12/92	CLR	_	_	
C05.011.255	2ND2F-322	11/12/92	CLR	_	_	
C05.011.256	2ND2F-324	11/12/92	CLR	_	_	
C05.011.257	2ND2F-367	12/10/92	CLR	_	_	
C05.011.258	2ND2F-219	11/12/92	CLR	_	_	
C05.011.259	2ND2F-221	10/26/92	CLR	_	_	
C05.011.260	2ND2F-222	10/26/92	CLR	_	_	
C05.011.261	2ND2F-223	10/26/92	CLR	_	_	
C05.011.262	2ND2F-224	10/26/92	CLR	_	_	
C05.011.263	2ND2F-225	10/26/92	CLR	_	_	
C05.011.264	2ND2F-220	11/02/92	CLR	_	_	
C05.011.265	2ND2F-240	10/26/92	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.266	2ND2F-230	10/27/92	CLR	-	-	
C05.011.267	2ND2F-231	10/27/92	CLR	-	-	
C05.011.268	2ND2F-232	10/27/92	CLR	-	-	
C05.011.269	2ND2F-216	11/18/92	C R	-	-	
C05.011.270	2ND2F-239	10/26/92	CLR	-	-	
C05.011.271	2ND2F-242	10/27/92	CLR	-	-	
C05.011.272	2ND2F-246	10/27/92	CLR	-	-	
C05.011.273	2ND2F-355	10/27/92	CLR	-	-	
C05.011.274	2ND2F-247	10/27/92	CLR	-	-	
C05.011.275	2ND2F-277	10/21/92	CLR	-	-	
C05.011.276	2ND2F-269	10/21/92	CLR	-	-	
C05.011.277	2ND2F-271	10/21/92	CLR	-	-	
C05.011.278	2ND2F-263	12/10/92	CLR	-	-	
C05.011.279	2ND2F-276	10/21/92	CLR	-	-	
C05.011.280	2ND2F-274	10/21/92	CLR	-	-	

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C05.011.283	2ND2FW15-6	11/02/92	CLR	-	-	
C05.011.285	2ND2FW16-15	11/02/92	CLR	-	-	
C05.011.286	2ND2FW16-13	11/02/92	CLR	-	-	
C05.011.287	2ND2FW16-16	11/02/92	CLR	-	-	
C05.011.289	2ND2FW17-12	10/26/92	CLR	-	-	
C05.011.290	2ND2FW17-20	10/26/92	CLR	-	-	
C05.011.291	2ND2FW17-3	10/26/92	CLR	-	-	
C05.011.294	2ND2FW17-14	10/26/92	CLR	-	-	
C05.011.296	2ND2FW18-6	10/26/92	CLR	-	-	
C05.011.300	2ND2FW18-2	10/26/92	CLR	-	-	
C05.011.301	2ND2FW18-3	10/26/92	CLR	-	-	
C05.011.302	2ND2FW19-1	10/26/92	CLR	-	-	
C05.011.303	2ND2FW19-5	10/26/92	CLR	-	-	
C05.011.304	2ND2FW19-3	10/26/92	CLR	-	-	
C05.011.305	2ND2FW19-8	10/26/92	CLR	-	-	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.306	2ND2FW19-12	10/26/92	CLR	_	_	
C05.011.311	2ND2FW20-10	10/26/92	CLR	_	_	
C05.011.356	2NI2F-610	07/19/93	CLR	_	_	
C05.011.357	2NI2F-611	07/19/93	CLR	_	_	
C05.011.358	2NI2F-617	07/19/93	CLR	_	_	
C05.011.370	2RN2F-1500	07/19/93	CLR	_	_	
C05.011.607	2SV2FW9-8	06/04/92	CLR	_	_	
C05.011.608	2SV2FW9-4	06/04/92	CLR	_	_	
C05.012.211	2ND2F-186L	10/26/92	CLR	_	_	
C05.012.212	2ND2F-188L	10/26/92	CLR	_	_	
C05.012.213	2ND2F-199L	10/27/92	CLR	_	_	
C05.012.214	2ND2F-322L	11/12/92	CLR	_	_	
C05.012.215	2ND2F-324L	11/12/92	CLR	_	_	
C05.012.216	2ND2F-367L	12/10/92	CLR	_	_	
C05.012.217	2ND2F-231L	10/27/92	CLR	_	_	

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.012.218	2ND2F-242L	10/27/92	CLR	_	_	
C05.012.219	2ND2F-269L	10/21/92	CLR	_	_	
C05.012.220	2ND2F-271L	10/21/92	CLR	_	_	
C05.012.351	2NI2F-610L	07/19/93	CLR	_	_	
C05.012.352	2NI2F-611L	07/19/93	CLR	_	_	
C05.012.353	2NI2F-617L	07/19/93	CLR	_	_	
C05.012.800	2VQ2FW5-4L	10/21/92	CLR	_	_	
C05.012.801	2VQ2FW5-11L	10/21/92	CLR	_	_	
C05.012.802	2VQ2FW5-15L	10/21/92	CLR	_	_	
C05.021.050	2CF2FW13-1	01/22/92	CLR	L	Y	OUT.8 NON-ISI EXAMINATION
C05.021.052	2CF2FW13-12	01/22/92	CLR	L	Y	OUT.8 NON-ISI EXAMINATION
C05.021.054	2CF2FW15-1	01/22/92	CLR	L	Y	OUT.8 NON-ISI EXAMINATION
C05.021.056	2CF2FW15-12	01/22/92	CLR	L	Y	OUT.8 NON-ISI EXAMINATION
C05.021.202	2ND2F-243	12/16/92	REC	_	Y	92.3% COVERAGE
C05.021.202A	2ND2F-243	12/09/92	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.021.662A	2SM2FW8-5	06/18/92	CLR	_	_	PIR 2M92-0102
C05.021.663A	2SM-5A-D	06/18/92	CLR	_	_	PIR 2M92-0102
C05.021.664A	2SM-5A-E	06/18/92	CLR	_	_	PIR 2M92-0102
C05.021.665A	2SM-5A-F	06/18/92	CLR	_	_	PIR 2M92-0102
C05.021.677	2SM2D1-X	08/09/93	REC	_	Y	100% EXAMINED
C05.021.677A	2SM2D1-X	08/04/93	CLR	_	_	_____
C05.021.679	2SM2FW-9-9	06/04/92	CLR	_	N	100% EXAMINED
C05.021.679A	2SM2FW-9-9	06/04/92	REP	_	_	PIR 2M92-0102
C05.021.680	2SM-5D-D	06/04/92	CLR	_	N	100% EXAMINED
C05.021.680A	2SM-5D-D	06/04/92	CLR	_	_	_____
C05.021.681	2SM-5D-E	06/04/92	CLR	_	N	100% EXAMINED
C05.021.681A	2SM-5D-E	06/04/92	CLR	_	_	_____

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C06.020.001	2SV-1-1	06/04/92	CLR	_	_	_____
C06.020.002	2SV-1-2	06/04/92	CLR	_	_	_____
C06.020.003	2SV-19-1	06/04/92	CLR	_	_	_____
C06.020.004	2SV-19-2	06/04/92	CLR	_	_	_____

AM: NISIRUND-GAISI04
C007133
: MCGUIRE UNIT 2
ITEM NUMBER 002

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
002.020.002	2MCA-5A-[illegible]	06/24/92	CLR	-	-	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
E01.001.003	2RCP-2C	07/27/93	CLR	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
E03.001.003	2NC2FW22-6	07/27/93	CLR	_	N	98.6% EXAMINED
E03.001.003A	2NC2FW22-6	07/08/93	CLR	_	_	_____
E03.001.004	2NC2FW22-7	08/18/93	CLR	_	N	100% EXAMINED
E03.001.004A	2NC2FW22-7	07/08/93	CLR	_	_	_____
E03.001.005	2NC2FW22-9	07/27/93	CLR	_	N	96.9% EXAMINED
E03.001.005A	2NC2FW22-9	07/08/93	CLR	_	_	_____
E03.001.006	2NC2FW22-11	08/18/93	CLR	_	N	100% EXAMINED
E03.001.006A	2NC2FW22-11	07/08/93	CLR	_	_	_____

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
E04.001.011	2SGC	07/29/93	CLR	-	-	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.01.737	2PZR-LUGS	08/11/93	CLR	_	_	
F1.01.738	2PZR-BRACKETS	08/07/93	CLR	_	_	
F1.02.041	2-MCA-CA-084	06/03/92	REC	_	_	
F1.02.044	2-MCA-CA-088	06/03/92	CLR	_	_	
F1.02.045	2-MCA-CA-120	06/03/92	CLR	_	_	
F1.02.056	2-MCA-CA-132	06/03/92	CLR	_	_	
F1.02.057	2-MCA-CA-134	06/03/92	CLR	_	_	
F1.02.058	2-MCA-CA-139	06/03/92	CLR	_	_	
F1.02.059	2-MCA-CA-140	06/03/92	CLR	_	_	
F1.02.060	2-MCA-CA-141	06/03/92	CLR	_	_	
F1.02.061	2-MCA-CA-142	06/03/92	CLR	_	_	
F1.02.062	2-MCA-CA-144	06/03/92	CLR	_	_	
F1.02.063	2-MCA-CA-145	06/03/92	CLR	_	_	
F1.02.178	2-MCA-VQ-5001	07/22/93	CLR	_	_	
F1.02.180	2-MCR-VQ-4002	07/23/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.02.184	2-MCA-VQ-5014	10/22/92	CLR	_	_	
F1.02.185	2-MCA-VQ-5016	10/21/92	CLR	_	_	
F1.02.186	2-MCA-VQ-5017	10/21/92	CLR	_	_	
F1.02.187	2-MCA-VQ-5018	10/21/92	CLR	_	_	
F1.02.357	2-MCA-SV-053	06/03/92	REC	_	_	
F1.02.358	2-MCA-SV-055	06/03/92	CLR	_	_	
F1.02.429	2-MCA-ND-5480	10/21/92	CLR	_	_	
F1.02.430	2-MCA-ND-5482	11/05/92	CLR	_	_	
F1.02.431	2-MCA-ND-5483	10/21/92	CLR	_	_	
F1.02.454	2-MCA-ND-5502	10/28/92	CLR	_	_	
F1.02.455	2-MCA-ND-5503	10/21/92	REC	_	_	
F1.02.456	2-MCA-ND-5504	10/21/92	REC	_	_	
F1.02.457	2-MCA-ND-5505	10/21/92	REC	_	_	
F1.02.458	2-MCA-ND-5506	11/05/92	CLR	_	_	
F1.02.459	2-MCA-ND-5507	11/05/92	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.02.461	2-MCA-ND-5509	10/21/92	REC	_	_	
F1.02.463	2-MCA-ND-5560	10/21/92	CLR	_	_	
F1.02.465	2-MCA-ND-5601	10/22/92	REC	_	_	
F1.02.466	2-MCA-ND-5602	11/05/92	CLR	_	_	
F1.02.467	2-MCA-ND-5603	11/05/92	CLR	_	_	
F1.02.469	2-MCA-ND-5605	10/21/92	REC	_	_	
F1.02.470	2-MCA-ND-5606	10/22/92	CLR	_	_	
F1.02.471	2-MCA-ND-5607	10/22/92	CLR	_	_	
F1.02.472	2-MCA-ND-5608	10/23/92	CLR	_	_	
F1.02.527	2-MCA-ND-6127	11/05/92	CLR	_	_	
F1.02.528	2-MCA-ND-6128	10/22/92	CLR	_	_	
F1.02.529	2-MCA-ND-6129	10/22/92	CLR	_	_	
F1.02.530	2-MCA-ND-6130	10/21/92	CLR	_	_	
F1.02.531	2-MCA-ND-6131	10/21/92	CLR	_	_	
F1.02.532	2-MCA-ND-6181	10/21/92	CLR	_	_	

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F1.02.533	2-MCA-ND-6201	10/21/92	CLR	-	-	
F1.02.534	2-MCA-ND-6202	10/21/92	CLR	-	-	
F1.02.535	2-MCA-ND-6203	10/21/92	CLR	-	-	
F1.02.536	2-MCA-ND-6204	10/21/92	CLR	-	-	
F1.02.537	2-MCA-ND-6205	11/05/92	CLR	-	-	
F1.02.538	2-MCA-ND-6209	10/21/92	CLR	-	-	
F1.02.539	2-MCA-ND-6210	10/21/92	CLR	-	-	
F1.02.541	2-MCA-ND-6212	10/23/92	CLR	-	-	
F1.02.542	2-MCA-ND-6213	10/24/92	REC	-	-	
F1.02.543	2-MCA-ND-6215	10/24/92	REC	-	-	
F1.02.544	2-MCA-ND-6220	10/21/92	CLR	-	-	
F1.02.545	2-MCA-ND-6221	10/21/92	CLR	-	-	
F1.02.546	2-MCA-ND-6222	10/21/92	CLR	-	-	
F1.02.547	2-MCA-ND-6223	10/21/92	CLR	-	-	
F1.02.548	2-MCA-ND-6224	10/21/92	REC	-	-	

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F1.02.549	2-MCA-ND-6225	10/21/92	REC	-	-	
F1.02.550	2-MCA-ND-6260	10/21/92	CLR	-	-	
F1.02.551	2-MCA-ND-6280	10/21/92	CLR	-	-	
F1.02.552	2-MCA-ND-6281	10/21/92	CLR	-	-	
F1.02.553	2-MCA-ND-6001	10/21/92	CLR	-	-	
F1.02.554	2-MCA-ND-6002	10/21/92	CLR	-	-	
F1.02.555	2-MCA-ND-6003	10/21/92	CLR	-	-	
F1.02.556	2-MCA-ND-6004	10/21/92	CLR	-	-	
F1.02.557	2-MCA-ND-6005	10/21/92	CLR	-	-	
F1.02.558	2-MCA-ND-6006	10/21/92	CLR	-	-	
F1.02.559	2-MCA-ND-6007	10/22/92	CLR	-	-	
F1.02.560	2-MCA-ND-6008	10/22/92	REC	-	-	
F1.02.561	2-MCA-ND-6009	10/21/92	CLR	-	-	
F1.02.562	2-MCA-ND-6217	10/21/92	CLR	-	-	
F1.02.563	2-MCA-ND-6218	11/05/92	CLR	-	-	

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.02.564	2-MCA-ND-6219	11/05/92	CLR	-	-	
F1.02.565	2-MCA-ND-5604	11/05/92	CLR	-	-	
F1.02.652	2-MCA-NI-7003	03/03/92	CLR	-	-	
F1.02.653	2-MCA-NI-7004	02/09/93	CLR	-	-	
F1.03.099	2-MCA-CA-5611	06/11/92	REC	-	-	
F1.03.100	2-MCA-CA-5613	01/05/93	CLR	-	-	
F1.03.101	2-MCA-CA-5614	01/05/93	CLR	-	-	
F1.03.102	2-MCA-CA-5615	01/05/93	CLR	-	-	
F1.03.103	2-MCA-CA-5616	01/05/93	CLR	-	-	
F1.03.104	2-MCA-CA-5617	01/05/93	CLR	-	-	
F1.03.105	2-MCA-CA-5618	06/09/92	CLR	-	-	
F1.03.106	2-MCA-CA-5619	06/09/92	CLR	-	-	
F1.03.107	2-MCA-CA-5621	06/09/92	CLR	-	-	
F1.03.108	2-MCA-CA-5622	06/11/92	CLR	-	-	
F1.03.109	2-MCA-CA-5624	06/11/92	CLR	-	-	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.03.110	2-MCA-CA-5625	06/11/92	CLR	_	_	_____
F1.03.111	2-MCA-CA-5626	06/11/92	CLR	_	_	_____
F1.03.112	2-MCA-CA-5627	06/11/92	CLR	_	_	_____
F1.03.113	2-MCA-CA-5628	06/11/92	CLR	_	_	_____
F1.03.114	2-MCA-CA-5629	06/11/92	REC	_	_	_____
F1.03.115	2-MCA-CA-5630	06/09/92	CLR	_	_	_____
F1.03.116	2-MCA-CA-5632	06/09/92	CLR	_	_	_____
F1.03.117	2-MCA-CA-5633	06/09/92	CLR	_	_	_____
F1.03.118	2-MCA-CA-5634	06/03/92	CLR	_	_	_____
F1.03.119	2-MCA-CA-5638	06/11/92	CLR	_	_	_____
F1.03.120	2-MCA-CA-5639	06/11/92	CLR	_	_	_____
F1.03.121	2-MCA-CA-5641	12/30/92	CLR	_	_	_____
F1.03.122	2-MCA-CA-5642	01/05/93	CLR	_	_	_____
F1.03.123	2-MCA-CA-5802	06/11/92	REC	_	_	_____
F1.03.124	2-MCA-CA-5803	06/11/92	CLR	_	_	_____

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.03.125	2-MCA-CA-5804	08/24/93	CLR	_	_	_____
F1.03.126	2-MCA-CA-5805	08/24/93	CLR	_	_	_____
F1.03.127	2-MCA-CA-5806	01/11/93	CLR	_	_	_____
F1.03.128	2-MCA-CA-5807	01/11/93	CLR	_	_	_____
F1.03.129	2-MCA-CA-5808	01/11/93	CLR	_	_	_____
F1.03.130	2-MCA-CA-5809	01/11/93	CLR	_	_	_____
F1.03.131	2-MCA-CA-5810	01/11/93	CLR	_	_	_____
F1.03.132	2-MCA-CA-5811	01/11/93	CLR	_	_	_____
F1.03.133	2-MCA-CA-5812	12/30/92	CLR	_	_	_____
F1.03.134	2-MCA-CA-5813	12/30/92	REC	_	_	_____
F1.03.135	2-MCA-CA-5814	12/30/92	CLR	_	_	_____
F1.03.136	2-MCA-CA-5816	06/11/92	CLR	_	_	_____
F1.03.137	2-MCA-CA-5817	08/24/93	CLR	_	_	_____
F1.03.138	2-MCA-CA-5818	08/24/93	CLR	_	_	_____
F1.03.139	2-MCA-CA-5819	01/11/93	CLR	_	_	_____

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.03.140	2-MCA-CA-5820	01/11/93	CLR	_	_	
F1.03.141	2-MCA-CA-5821	01/11/93	CLR	_	_	
F1.03.142	2-MCA-CA-5822	01/11/93	CLR	_	_	
F1.03.143	2-MCA-CA-5824	01/11/93	CLR	_	_	
F1.03.144	2-MCA-CA-5825	01/11/93	CLR	_	_	
F1.03.145	2-MCA-CA-5826	12/30/92	CLR	_	_	
F1.03.146	2-MCA-CA-5827	12/30/92	REC	_	_	
F1.03.147	2-MCA-CA-5828	12/30/92	CLR	_	_	
F1.03.148	2-MCA-CA-5829	12/30/92	CLR	_	_	
F1.03.205	2-MCA-SA-5075	06/24/92	CLR	_	_	
F1.03.206	2-MCA-SA-5086	06/03/92	REC	_	_	

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

Results of Pressure Testing Inspections Performed During Outage 8

November 16, 1993

Memo To File

Subject: McGuire Nuclear Station, Unit 2
1st Ten Year Inspection Interval
Pending Pressure Test Items

The following Items were not completed during refueling outage 8 and are scheduled for refueling outage 9. All of the listed Items are projected to be complete before the end of the first ten year inspection interval with the exception of Items C07.021.007 and D02.12.017. We are in the process of contacting the Nuclear Regulatory Commission with these two Items.

C07.011.022	C07.021.011	C07.021.033
C07.021.005	C07.021.017	C07.021.048
C07.021.006	C07.021.018	D02.012.017
C07.021.007	C07.021.028	D02.012.018
C07.021.009	C07.021.029	D02.012.029
C07.021.010	C07.021.031	

Jim Boughman

Jim Boughman
Nuclear Services / QATS

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
B15.010.001	MC-2553-1.0	08/30/93	COMPLETE	CLEAR
B15.020.001	MC-2553-2.0	08/30/93	COMPLETE	CLEAR
B15.030.001	MC-2553-1.0	08/30/93	COMPLETE	CLEAR
B15.030.002	MC-2553-1.0	08/30/93	COMPLETE	CLEAR
B15.030.003	MC-2553-1.0	08/30/93	COMPLETE	CLEAR
B15.030.004	MC-2553-1.0	08/30/93	COMPLETE	CLEAR
B15.050.001	MC-2553-1.0	08/30/93	COMPLETE	RECORDABLE
B15.050.002	MC-2553-2.0	08/30/93	COMPLETE	CLEAR
B15.050.004	MC-2554-1.0	08/30/93	COMPLETE	CLEAR
B15.050.005	MC-2554-1.1	08/30/93	COMPLETE	CLEAR
B15.050.006	MC-2554-1.2	08/30/93	COMPLETE	CLEAR
B15.050.007	MC-2561-1.0	08/30/93	COMPLETE	CLEAR
B15.050.008	MC-2562-1.0	08/30/93	COMPLETE	CLEAR
B15.050.009	MC-2562-2.0	08/30/93	COMPLETE	CLEAR
B15.050.010	MC-2562-2.1	08/30/93	COMPLETE	CLEAR
B15.050.011	MC-2562-3.0	08/30/93	COMPLETE	CLEAR
B15.051.007	MC-2561-1.0	08/27/93	COMPLETE	CLEAR

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
B15.051.009	MC-2562-2.0	08/27/93	COMPLETE	CLEAR
B15.051.010	MC-2562-2.1	08/27/93	COMPLETE	CLEAR
B15.051.011	MC-2562-3.0	08/27/93	COMPLETE	CLEAR
B15.051.012	MC-2562-3.1	08/27/93	COMPLETE	CLEAR
B15.060.001	MC-2553-1.0	08/30/93	COMPLETE	RECORDABLE
B15.060.002	MC-2553-1.0	08/30/93	COMPLETE	CLEAR
B15.060.003	MC-2553-1.0	08/30/93	COMPLETE	RECORDABLE
B15.060.004	MC-2553-1.0	08/30/93	COMPLETE	RECORDABLE
C07.010.001	MC-2563-1.0	10/16/92	COMPLETE	CLEAR
C07.010.002	MC-2563-1.0	08/19/92	COMPLETE	CLEAR
C07.011.001	MC-2591-1.1	06/22/93	COMPLETE	CLEAR
C07.011.002	MC-2591-1.1	06/22/93	COMPLETE	CLEAR
C07.011.003	MC-2591-1.1	06/22/93	COMPLETE	CLEAR
C07.011.004	MC-2591-1.1	06/22/93	COMPLETE	CLEAR
C07.011.011	MC-2561-1.0	08/19/93	COMPLETE	CLEAR
C07.011.012	MC-2561-1.0	08/19/93	COMPLETE	CLEAR
C07.011.013	MC-2562-2.0	08/30/93	COMPLETE	CLEAR

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.011.014	MC-2562-2.0	08/30/93	COMPLETE	CLEAR
C07.011.015	MC-2562-2.1	08/30/93	COMPLETE	CLEAR
C07.011.016	MC-2562-2.1	08/30/93	COMPLETE	CLEAR
C07.020.001	MC-2554-3.1	05/07/92	COMPLETE	CLEAR
C07.020.002	MC-2561-1.0	05/07/92	COMPLETE	CLEAR
C07.020.003	MC-2562-3.0	03/29/93	COMPLETE	RECORDABLE
C07.020.004	MC-2562-3.1	06/30/92	COMPLETE	CLEAR
C07.020.005	MC-2563-1.0	10/16/92	COMPLETE	CLEAR
C07.020.006	MC-2554-2.0	05/07/92	COMPLETE	CLEAR
C07.020.007	MC-2554-3.0	05/07/92	COMPLETE	CLEAR
C07.020.012	MC-1554-5.0	05/07/92	COMPLETE	CLEAR
C07.021.002	MC-2553-2.0	08/26/93	COMPLETE	CLEAR
C07.021.004	MC-2553-4.0	08/02/93	COMPLETE	CLEAR
C07.021.005	MC-2554-1.0	08/27/93	PARTIAL	CLEAR
C07.021.006	MC-2554-1.1	08/27/93	PARTIAL	CLEAR
C07.021.008	MC-2554-1.3	08/27/93	COMPLETE	CLEAR
C07.021.010	MC-2554-3.0	10/27/93	PARTIAL	CLEAR

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.021.016	MC-2556-3.0	08/27/93	COMPLETE	CLEAR
C07.021.017	MC-2561-1.0	08/19/93	PARTIAL	CLEAR
C07.021.018	MC-2562-1.0	07/07/93	PARTIAL	CLEAR
C07.021.019	MC-2562-2.0	08/30/93	COMPLETE	CLEAR
C07.021.020	MC-2562-2.1	08/30/93	COMPLETE	CLEAR
C07.021.021	MC-2562-3.1	08/30/93	COMPLETE	CLEAR
C07.021.023	MC-2563-1.0	10/27/93	COMPLETE	CLEAR
C07.021.027	MC-2571-1.0	10/27/93	COMPLETE	CLEAR
C07.021.028	MC-2572-1.0	08/19/93	PARTIAL	CLEAR
C07.021.034	MC-2584-1.0	06/22/93	COMPLETE	CLEAR
C07.021.035	MC-2591-1.1	06/22/93	COMPLETE	RECORDABLE
C07.021.036	MC-2592-1.0	08/30/93	COMPLETE	CLEAR
C07.021.037	MC-2593-1.0	08/30/93	COMPLETE	CLEAR
C07.021.038	MC-2593-1.2	08/30/93	COMPLETE	CLEAR
C07.021.039	MC-2593-1.3	08/30/93	COMPLETE	RECORDABLE
C07.021.040	MC-2617-1.0	06/22/93	COMPLETE	CLEAR
C07.021.041	MC-2562-3.0	09/02/93	COMPLETE	CLEAR

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.021.043	MC-2565-1.0	08/27/93	COMPLETE	CLEAR
C07.021.044	MC-2565-1.1	08/27/93	COMPLETE	CLEAR
C07.021.045	MC-2604-3.0	07/14/93	COMPLETE	CLEAR
C07.021.046	MC-1599-2.2	07/12/93	COMPLETE	CLEAR
C07.021.047	MC-2605-2.2	07/15/93	COMPLETE	CLEAR
C07.021.049	MC-2605-1.14	07/15/93	COMPLETE	CLEAR
C07.021.050	MC-2605-1.16	07/15/93	COMPLETE	CLEAR
C07.021.051	MC-2605-1.2	07/15/93	COMPLETE	CLEAR
C07.021.052	MC-2605-1.3	07/15/93	COMPLETE	CLEAR
C07.021.053	MC-2558-4.0	08/26/93	COMPLETE	CLEAR
C07.030.001	MC-2554-3.1	05/07/92	COMPLETE	CLEAR
C07.030.002	MC-2554-3.1	04/09/92	COMPLETE	CLEAR
C07.030.005	MC-2563-1.0	10/16/92	COMPLETE	CLEAR
C07.030.006	MC-2563-1.0	08/19/92	COMPLETE	CLEAR
C07.030.007	MC-2562-3.0	06/30/92	COMPLETE	CLEAR
C07.030.008	MC-2562-3.0	03/29/93	COMPLETE	CLEAR
C07.031.001	MC-2554-3.0	09/27/92	COMPLETE	CLEAR

NO. 6
15/93

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.031.004	MC-2561-1.0	08/19/93	COMPLETE	CLEAR
C07.031.005	MC-2561-1.0	08/19/93	COMPLETE	CLEAR
D02.011.024	MC-2609-3.0	04/16/92	COMPLETE	CLEAR
D02.011.025	MC-2609-3.1	04/16/92	COMPLETE	CLEAR
D02.012.003	MC-2573-1.1	07/31/93	COMPLETE	CLEAR
D02.012.011	MC-2574-1.1	07/31/93	COMPLETE	CLEAR
D02.012.012	MC-2574-2.0	05/20/93	COMPLETE	CLEAR
D02.012.013	MC-2574-2.1	05/20/93	COMPLETE	CLEAR
D02.012.014	MC-2574-3.0	07/31/93	COMPLETE	CLEAR
D02.012.015	MC-2574-3.1	08/23/93	COMPLETE	CLEAR
D02.012.017	MCFD-2592-1.0	08/27/93	PARTIAL	CLEAR
D02.012.018	MC-2592-1.1	09/02/93	PARTIAL	CLEAR
D02.012.020	MC-2609-1.0	05/20/93	COMPLETE	CLEAR
D02.012.021	MC-2609-1.1	07/31/93	COMPLETE	CLEAR
D02.012.030	MC-1574-1.1	07/31/93	COMPLETE	CLEAR
D02.012.031	MC-1574-3.0	07/31/93	COMPLETE	CLEAR
D02.012.032	MC-1574-2.0	05/20/93	COMPLETE	CLEAR

NO. 7
15/93

McGUIRE UNIT NUMBER 2
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
D03.011.001	MC-2570-1.0	04/08/92	COMPLETE	CLEAR
D03.012.001	MC-2570-1.0	07/08/93	COMPLETE	CLEAR

6.0 Reportable Indications

Outage 8 had 3 reportable indications.

B01.021.002	PIP	2M93-0717
B13.010.001	PIP	2M93-0687
C05.021.679A	PIR	2M92-0102

7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from March 14, 1992 to August 30, 1993 at McGuire Nuclear Station, Unit 2, 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 McGuire Nuclear Station or in the Corporate Offices 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 McGuire Nuclear Station or in the Corporate Offices 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

Listed below are the correction actions performed during outage 8:

B01.021.002	PIP	2M93-0717
B13.010.001	PIP	2M93-0687
C05.021.679A	PIR	2M92-0102

9.0 Reference Documents

The following reference documents apply to the inservice inspection performed during Outage 8 at McGuire 2:

Description	PIR/PIP
Sensitivity Comparison of Calibration Blocks 50378 & 50303	
Request for Relief MNS-004 (Reactor Vessel Outlet Nozzles)	
1993 Reactor Vessel Examination Report for McGuire Unit 2 (B&W)	*
Reactor Vessel Shell to Flange Weld (B01.030.001)	0M93-0792
Reactor Vessel Shell to Flange Weld (B01.030.001)	2M93-0674
Reactor Vessel Inner Surface (B13.010.001)	2M93-0687
Reactor Vessel Lower Head to Bottom Head (B01.021.002)	2M93-0717
Wrong Acceptance Standards on Nozzles	0M91-0174
Rejectable Surface Indication (C05.021.679A)	2M92-0102
Incorrect Calibration Block Used for Rector Vessel Flange to Upper Shell Weld	2M93-1157

* This item is on file at McGuire Nuclear Station or in the Corporate Offices in Charlotte, North Carolina.

October 11, 1993

Ken Wandling
Project Manager
Plant Services Project Management

Subject: McGuire Nuclear Station Unit 2
Comparison Between Calibration Blocks 50378 & 50303
Reactor Vessel 10 Year ISI Exam (ARIS)

Mr. Wandling:

During B&W's review of Catawba Unit 1 Reactor Vessel exam it was discovered that the Flange to Upper Shell (Nozzle Belt) weld had a different Calibration Block than the one listed for McGuire Unit 2. The Calibration Block for Catawba Unit 1 is (50303), McGuire Unit 2 used block 50378.

A review of the material types for McGuire Unit 2 show that block (50303) should have been used for the exam at McGuire.

To determine tha 50378 is comparable to 50303 we need to have a DAC comparison done between these blocks to insure that exams done with 50378 have adequate sensitivity. Per conversation with Andrew Richmond the information for these blocks have already been taken during McGuires Calibration Setup.

We request that this comparison be done as soon as possible since our Outage Report will be due to License by November 15, 1993.

If you have any questions or require additional information, please contact me at (704) 875-4501 or Dennis Cabe at (704) 875-5491.

Thank You:

Gary Underwood

Gary Underwood
QATS/ McGuire

cc: WD Cabe - MNS
EB Miller - MNS
JJ McArdle - MNS

BW NUCLEAR TECHNOLOGIES

3315 Old Forest Road
P.O. Box 10935
Lynchburg, VA 24506-0935
Telephone: 804-385-2000
Telecopy: 804-385-3663

October 21, 1993
DPC-PS-93-106

Mr. W.D. Cabe, MG02ND
Non-Destructive Exam Group
Duke Power Company
McGuire Nuclear Station
13225 Hagers Ferry Road, Office 1440
Huntersville, NC 28078

Subject: McGuire Nuclear Station - Unit II
ISI Contract, BWNS No.: 583-0662
Task 409 -- Reactor Vessel 10 Year ISI Exam (ARIS)
Cal. Block Sensitivity Comparison - Analysis Results

Dear Mr. Cabe:

As a result of the sensitivity comparison of Calibration Blocks #50378 and #50303 and per your request, additional analysis was performed for the Flange to Upper Shell Weld. The data was reviewed, and no recordable indications were detected other than the ones already reported in the examination results. See attached memo (Martin to Triska, 10/20/93) for review signatures.

If you have any questions or require additional information, please contact me at (804) 385-2285 or Mr. Paul Triska at (804) 385-2244.

Very truly yours,

G.K. Wandling
Project Manager
Plant Services Project Management

GKW/lab

Attachment

cc: BW Street - MNS (w/o Att.)
EB Miller - MNS (w/o Att.)
GJ Underwood - MNS (w/Att.)

B&W NUCLEAR TECHNOLOGIES

Paul Triska, Project Engineer, NDE Services	BWNT-20553A-5(10/89)
From: C.E. Martin, NDE Services	Customer or File
Subj: Additional Analysis Required for McGuire Unit 2	Date: October 20, 1993

After performing a sensitivity comparison of calibration blocks 50378 and 50303 for Duke Power Company, it was determined that additional analysis would be required for the Flange to Upper Shell weld. Specifically, data needed to be analyzed with the 60° (5604-93001) transducer for signals displayed from 45 to 49 % DAC at a depth of 3/4T.

This data was reviewed, and no recordable indications were detected other than the ones already reported in the Examination Results.

Prepared by: C E Martin Jr Date: 10/20/93
C.E. Martin, NDE Services

Reviewed by: M. G Hacker Date: 10/20/93
M.G. Hacker, NDE Services

CEM/tl

SENSITIVITY COMPARISON OF

CALIBRATION BLOCKS 50378 AND 50303

FOR DUKE POWER COMPANY

Prepared By: C.E. Martin Jr. Date: 10/19/93

C.E. Martin, NDE Services, BWNT

Approved By: M.G. Hacker Date: 10/19/93

M.G. Hacker, NDE Services, BWNT

SENSITIVITY COMPARISON OF CALIBRATION BLOCKS 50378 AND 50303 FOR DUKE POWER COMPANY

BACKGROUND

Shortly after the McGuire Unit 2, 1993 Ten-Year Reactor Pressure Vessel Examination, it was discovered that an incorrect calibration block was used for ultrasonic examination of the Flange to Upper Shell weld. Specifically calibration block 50378 was utilized when block 50303 should have been used. For more background information, see the letter dated October 11, 1993 from Mr. Gary Underwood of Duke Power Company to Mr. Ken Wandling of B&W Nuclear Service Company.

OBJECTIVE

Determine if block 50378 (the one actually used) is equally, more, or less sensitive than block 50303 (the one which should have been used) for the ultrasonic transducers utilized during the above referenced examination. Also determine if block 50378 is adequately sensitive to perform calibrations, for examination of the Flange to Upper Shell weld using the BWNS Accusonex System.

APPROACH

Compare the DAC curves between the two blocks to determine any sensitivity variation. DAC curve comparisons will be made for each transducer calibrated on the two blocks (i.e., 0°, 45°, and 60°). Note that two separate 45° and 60° transducers were used.

ASSUMPTIONS

1) Same transducers, couplant, and UT System used to construct the DAC curves for both blocks.

2) Both blocks were approximately the same temperature (±5°F) when each DAC curve was constructed.

3) Both blocks are of equal thickness.

4) Both blocks have equal size and shaped calibration reflectors.

DEFINITIONS

Sensitivity - Given two calibration blocks (A & B). If block "A" is more sensitive than "B" for a particular reflector and transducer, then the amplitude of the return signal from "A" is less than the amplitude of the return signal from "B" while keeping all other parameters the same (e.g., gain level, UT System, temperature, and couplant).

ANALYSIS:

- Review of the information on the DAC curve printouts, procedural requirements, and calibration block drawings indicate that assumptions 1) through 4) are valid assumptions.

- Indicated in Table I (second and third columns) are the reflector amplitudes (in percent full-screen-height) extracted from the appropriate DAC curve. The forth and fifth columns show the calculated amplitudes at equal calibration gains. Columns four and five are only used if the calibration gain differed from one block to the next. The last column (Δ dB) shows the amount of amplitude difference, in decibels, between block 50378 and 50303 at equal calibration gains.

RESULTS

Comparison of [illegible] DAC curves between calibration blocks 50303 and 5037[illegible] yielded the following results for the below listed transducers and reflectors:

TRANSDUCER	RESULTS
0° (5008-93002)	50378 More Sensitive For All Reflectors
45° (5508-93002)	50378 More Sensitive For All Reflectors
45° (5508-93004)	50378 More Sensitive For All Reflectors
60° (5604-93001)	50378 More Sensitive For 1/4, 1/2T, and 5/4T Reflectors. 50303 More Sensitive For 3/4T and OD Notch Reflectors.
60° (5604-93003)	50378 More Sensitive For 1/4T, 1/2T, 3/4T, and 5/4T Reflectors. 50303 More Sensitive for OD Notch.

The 3/4T reflector using the 60° (5604-93001) transducer resulted in less sensitivity (by 0.8 dB) for the 50378 block. Due to the way the Accusonex System records data, this 0.8 dB difference is not significant enough to affect the 50% recording threshold for indications greater than 1/4T. That is, the Accusonex System records all signals greater than 10% FSH at run gain. Since the 3/4T hole resulted in a DAC amplitude of 44.4% FSH, signals are being recorded at a level of 11.3% DAC (@ + 6 dB Hot), thus exceeding the required recording threshold of 50% DAC. Although the data was recorded, this does not necessarily indicate the data was analyzed. Specifically, the 0.8 dB difference means that indications at, or near, 3/4T with an amplitude of " x % DAC" would have been displayed as "0.9 x % DAC". For example, a 50% DAC signal would have been displayed as 45% DAC. Since the evaluation threshold (per procedure) is 50% DAC for volumetric indications greater than 1/4T, signals displaying amplitudes between 45 and 49% DAC would still need to be analyzed.

For the notched reflectors the situation is a little different. Namely, the notch is used to set the reference sensitivity level for cases where its response is less than the recording threshold. That is if the notch response is less than 10% FSH, the gain is increased until the 10% FSH level is obtained, and this gain now becomes the new reference sensitivity level. Since the notch response for both 60° transducers exceeded the 10% FSH criteria for the 50378 block, no adjustments to the calibration gain were necessary. Note also that if the 50303 block had of been used, no gain adjustments (for both 60° transducers) would have been necessary either. As a point of interest, the following table is offered showing: (1) DAC curve amplitude in % FSH at the notch depth, (2) the notch response in % DAC, and (3) the 10% FSH recording level as % DAC for the 50303/50378 blocks and the 93001/93003 60° transducers.

Xducer	DAC Amplitude in FSH		Notch Response in % DAC		10% FSH as % DAC	
	50303	50378	50303	50378	50303	50378
93001	34.2	34.1	67.3	114.4	29.2	29.3
93003	25.0	29.2	84.0	150.7	40.0	34.2

Based on the above results, the 50378 calibration block is considered to be adequately sensitive for examination of the Flange to Upper Shell weld using the BWNS ACCUSONEX system for all transducers referenced in Table I, with the exception of the 60° (5604-93001). For this transducer, data displayed from 45 to 49% DAC at a depth of 3/4T will need to be analyzed to comply with procedural requirements.

TABLE I

DESCRIPTION	50303	50378		50303	50378		Δ dB
0° (5008-93002)							
Cal Gain (dB)	33	35		33	33		
1/4T	79.9	79.9		79.9	63.5		-2.0
1/2T	72.2	72.7		72.2	57.7		-1.9
3/4T	62.8	57.9		62.8	46.0		-2.7
45° (5508-93002)							
Cal Gain (dB)	25	30		25	25		
1/4T	60.6	79.9		60.6	44.9		-2.6
1/2T	80.3	89.7		80.3	50.4		-4.0
3/4T	52.5	63.7		52.5	35.8		-3.3
5/4T	20.7	31.0		20.7	17.4		-1.5
Notch	83	100		83	56		-3.4
45° (5508-93004)							
Cal Gain (dB)	25	30		25	25		
1/4T	80.3	90.6		80.3	51.0		-3.9
1/2T	78.1	87.0		78.1	48.9		-4.1
3/4T	49.8	67.8		49.8	38.1		-2.3
5/4T	24.7	25.6		24.7	14.4		-4.7
Notch	87	100		87	56		-3.8
60° (5604-93001)							
Cal Gain (dB)	33	33					
1/4T	96	93.8					-0.2
1/2T	79.9	51.2					-3.9
3/4T	40.4	44.4					+0.8
5/4T	27.9	23.8					-1.4
Notch	23	39					+4.6
60° (5604-93003)							
Cal Gain (dB)	31	33		31	31		
1/4T	92.4	90.6		92.4	72.0		-2.2
1/2T	56.1	48.5		56.1	38.5		-3.3
3/4T	31.0	37.3		31.0	29.6		-0.4
5/4T	18.9	21.1		18.9	16.8		-1.0
Notch	21	44		21	35		+4.4

DUKE POWER COMPANY

Request For Relief From
Inservice Inspection Requirement

Station: McGuire

Units: 1 & 2

Requesting Department: Quality Assurance-ISI

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

1. Component for which exemption is requested:

   a. Name and Identification Number:

      Unit 1: Reactor Pressure Vessel outlet nozzle-to-vessel welds, outlet nozzle to safe end, outlet nozzle safe end to reactor coolant system piping welds.

      Unit 2: Reactor Pressure vessel outlet nozzle-to-vessel welds and outlet nozzle-to-pipe welds on Reactor Coolant System.

   b. Function:

      Welded connection between the Reactor Pressure Vessel and respective Reactor Coolant piping providing a flow path to the steam generator.

   c. ASME Section XI, Class 1

II. Reference Code Requirement that has been determined to be impractical:

ASME Section XI, Table IWB-2500-1, Category B-D item numbers B3.90 and B3.100, note (2); at least 25% but not more than 50% (credited) of the nozzles shall be examined by the end of the first inspection period and the remainder by the end of the inspection interval.

ASME Section XI, IWB-2420(a): The sequence of component examinations established during the first inspection interval shall be repeated during each successive inspection.

III. Basis for Requesting Relief:

(A) During the first period of the first inspection interval at McGuire Nuclear Station Unit 1, the 29" outlet nozzle-to-vessel welds, outlet nozzle to safe end, outlet nozzle safe end to Reactor Coolant System piping welds (nozzle side), were examined using Babcock & Wilcox's Automated Reactor Inspection Tool (ARIS)

(B) During the first period of the first inspection interval at McGuire Nuclear Station Unit 2, the 29" outlet nozzle-to-vessel welds, outlet nozzle-to-safe end welds, outlet nozzle safe end to Reactor Coolant System piping welds were examined using Babcock & Wilcox's Automated Reactor Inspection Tool (ARIS).

The four nozzle welds examined for each unit met the 50% requirement of Table IWB-2500-1 Category B-D (Note 2). * No recordable indications were detected.

During the third period of the first ten year inspection interval all reactor vessel nozzle-to-vessel and all respective nozzle-to-pipe welds will be examined using automated inspection equipment. Included in this examination will be the 29" outlet nozzle-to-vessel and nozzle-to-pipe welds examined during the first period. The re-examination of these 29" outlet nozzles will be performed meeting the 1989 ASME Section XI Code. Credit will be applied to the second interval, first period requirement for the 29" outlet nozzle-to-vessel welds under Table IWB-2500-1, Category B-D, items B3.90 and B3.100. These examinations will not be performed during the first period of the second inspection interval.

IV. Alternate Examination:

Automated re-examination of all the reactor vessel nozzle-to-vessel welds, including respective nozzle-to-pipe welds will be deferred to the last period of the second ten year inspection interval.

V. Implementation Schedule:

Examinations are currently scheduled to be performed during the third inspection period for each of the McGuire Units as follows:

McGuire Unit 1 : RFO #7 1991
McGuire Unit 2 : RFO #8 1993

Today's Date : 09/16/93
Time : 11:00
Page No.: 1
PIP Serial No.: O-M93-0792

MSE Serial No.:
LER Serial No.:
Other Rpt. No.:

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

I. Problem ID

Occurred Time/Date: : / / Discovered Time/Date: : 07/13/93

Unit(s): O Status at Time Occurred: Unit 1 Unit 2
Mode: 1 UNKNOWN
% Power:

Unit Status Remarks:

System(s) Affected :
1). NC = Reactor Coolant System

Problem Found While Working With Work Order No.:

Location of Problem - Bldg: Elev: Column Line:
Location Remarks: RX VESSEL SHELL TO FLANGE WELDS UNIT 1&2

Method Used To Discover Problem:

EXAMINIATION OF UNIT 2 WELD (REFERENCE PIP 2-M93-0674)

Brief Problem Description:

WELDS 1RPV7-442 & 2RPV-W07 NOT IAW ASME SECTION XI

Detailed Problem Description:

THE 1980 EDITION OF THE ASME SECTION XI CODE (WINTER 1980 ADDENDA) REQUIRES AT LEAST 50% OF THE SHELL TO FLANGE WELD LENGTH TO BE EXAMINED BY THE END OF THE FIRST INSPECTION PERIOD. INSTEAD OF 50% OF THE LENGTH, THE WELD WAS EXAMINED FROM ONLY 50% OF THE FLANGE SURFACE (0-180) DURING THE FIRST PERIOD. THIS EXAMINATION ONLY INCLUDED APPROXIMATELY 25% OF THE WELD LENGTH.

THE INSERVICE INSPECTION PLAN UNDER CATEGORY (B-A) ITEM NO. B01.030.001 WAS SCHEDULED FOR 50% EXAMINATION OF THE SHELL TO FLANGE WELD FROM THE FLANGE FACE DURING THE FIRST PERIOD. DURING THE PERIOD THE REMAINING WELD (180-360) WAS SCHEDULED. TO GET 50% COVERAGE OF THIS WELD FOR THE FIRST PERIOD 100% OF THE FLANGE SURFACE WOULD NEED TO BE EXAMINED TO ALLOW FOR THE 54 THREADS IN THE REACTOR VESSEL. THIS WAS THE INTERPRETATION OF THE CODE DURING THE TIME THAT THE ISI PLAN WAS DEVELOPED.

Originated by: EGBARE Group: MMT Date: 08/20/93

MSE Serial No.:
LER Serial No.:
Other Rpt. No.:

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Other Units/Components/Systems/Areas Affected (Y,N,U): NO

Immediate Corrective Actions:

Originated by: EGBARE Group: MMT Date: 08/20/93

Corrective Action Work Order No.:

Problem Identified By: GJUNDERW Group: TES Date: 08/20/93
Problem Entered By : EGBARE Group: MMT Date: 08/20/93

II. Significance

Is the Problem Significant? N Action Category: 3
OEP NUMBER:
Event Code(s) :
1). A = Document Adherence

Screening Remarks:

Item determined not significant due to not meeting the Significance Criteria.
Originated by: GDHOUSER Group: SRV Date: 09/15/93

Screened By: GDHOUSER Group: SRV Date: 09/15/93

Responsible Groups for Proposed Resolution(s) :

	Original Due Date	Current Due Date	# Ext.
1). GSD = Generation Services	08/12/93	08/12/93	0

Responsible Group for Cause Code Evaluation : GSD Due Date: 08/12/93

Responsible Group for Overall PIP Approval : SRV Due Date: / /

III. Problem Evaluation

System(s) Affected :
1). NC = Reactor Coolant System

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LER Serial No.:
Other Rpt. No.:

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Affected Equipment:
WMS Equipment ID No. | Comp. Code | Manufacturer Name |

INPO Cause Code(s) :

Cause(s) of Problem:

Groups Responsible for Causing Event: 1.) 2.)
3.) 4.)
Cause Determination Assigned to: / Due Date : 08/12/93
Is Cause Determination Complete (y,n) : No
Approved By : Group: GSD App Date : / /

Proposed Resolution From: GSD Grp Status: OPEN

Is Proposed Resolution ready for approval? (Y,N) No
Assigned To : /
Orig Due Date : 08/12/93 Curr Due Date : 08/12/93 # of Ext.: 0
Approved By : Group : App Date : / /

Is a Document or Physical Change to the Station Required?
Doc Type / Doc No.

Remarks:

IV. Corrective Actions

V. Final and Overall PIP Approval

Assigned To: / Due Date: / /
Approved By: Group: SRV Date: / /

MSE Serial No.:
LER Serial No.:
Other Rpt. No.:

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End of the Document for PIP No.: O-M93-0792
The Status of this PIP No. is : OPEN

MCGUIRE NUCLEAR STATION
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I. Problem ID

Occurred Time/Date: : 07/11/93 Discovered Time/Date: : 07/13/93

Unit(s): 2 Status at Time Occurred:

	Unit 1	Unit 2
Mode:	N/A	5
% Power:	N/A	0

Unit Status Remarks:

System(s) Affected:
1). NC = Reactor Coolant System

Problem Found While Working With Work Order No.:

Location of Problem - Bldg: RX2 Elev: Column Line:
Location Remarks: RX VESSEL WELD 2RPV-W07

Method Used To Discover Problem:

PERFORMING INSERVICE INSPECTION

Brief Problem Description:

WELD 2RPV-W07 LOCATION IN QUESTION

Detailed Problem Description:

DURING THE 2EOC8 OUTAGE IT WAS DISCOVERED THAT THE WELD LOCATION OF 2RPV-W07 WAS IN QUESTION, AS TO ITS LOCATION IN RELATION TO THE FLANGE SURFACE FROM WHICH THE INSPECTION WILL BE PERFORMED. DRAWING MCM 2201.01-0019.001 SHOWS A DIMENSION OF 27.84" FROM THE CORE SUPPORT LEDGE. DRAWING MCM 2201.01-8 SHOWS PIECE #07 BEING 1075MM (42.24") IN THICKNESS OR 42.24" FROM FLANGE SURFACE TO THE OPPOSITE EDGE OF PIECE #07 WHERE WELD WILL START.
MCGUIRE UNIT II REACTOR VESSEL REPORT 173" ID RPV MCM 2201.01-0021 SHOWS THE WELD BEING 1064MM (41.81") FROM THE FLANGE SURFACE TO THE CENTERLINE OF THE WELD. IF ONE TAKES DIMENSION FROM THE ABOVE MENTIONED DRAWINGS TO CONFIRM WELD CENTERLINE TO FLANGE SURFACE DISTANCE FROM OTHER DIMENSIONS IN THE DRAWINGS ONE CAN COME UP WITH ANOTHER CONFLICTING DIMENSION.
KNOWING THIS DIMENSION IS CRITICAL TO THE ULTRASONIC EXAMINATION, IN THAT BASED ON THE LOCATION, THE AREA OF INTEREST, CALIBRATION PARAMETERS, AND WELD FLAW ACCEPTANCE CRITERIA ARE DETERMINED. BEFORE THE CURRENT INSPECTION OF WELD 2RPV-W07 180-360 DEGREES THE PREVIOUS INSPECTION DATA WAS LOOKED AT WHICH COVERED FROM 0-180 DEGREES. IT WAS ASSUMED BASED ON THIS DATA AND

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CALIBRATIONS, WHICH WERE PERFORMED 3-8-85 THAT CALIBRATION BLOCK 50304 WAS ADEQUATE FOR THIS EXAM TO COVER THE RANGE OF THE EXAMINATION. AT THIS TIME IT WAS BELIEVED THE WELD CENTERLINE WAS 27.84" FROM THE FLANGE SURFACE BASED ON DRAWING MCM 2201.01-0019.001 AS CONFIRMED BY PREVIOUS DATA. THE INSPECTION WAS PERFORMED 7-11-93 180-360 DEGREES AND WHILE PUTTING TOGETHER THIS DATA PACKAGE IT WAS DISCOVERED THE ACTUAL WELD CENTERLINE WAS NOT KNOWN.

Originated
by: EGBARE Group: MMT Date: 07/21/93

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

Immediate Corrective Actions:

NONE

Originated by: EGBARE Group: MMT Date: 07/21/93

Corrective Action Work Order No.:

Problem Identified By: JRPETTIT Group: GSD Date: 07/21/93
Problem Entered By : EGBARE Group: MMT Date: 07/21/93

II. Significance

Is the Problem Significant? N Action Category: 3
MSE No.: LER No.: Other Report No.:
OEP No.:

Event Code(s) :
1). A = Document Adherence

Screening Remarks:

Item determined not significant due to not meeting the Significance Criteria.

Originated by: GDHOUSER Group: SRV Date: 09/15/93

Responsible Group(s) for Proposed Resolution :

	Original Due Date	Current Due Date	# Ext.

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1). GSD = Generation Services 08/12/93 | 08/12/93 | 0

Responsible Group for Cause Code Evaluation : GSD Due Date: 08/12/93

Responsible Group for Overall PIP Approval : SRG Due Date: / /

Screened By: GDHOUSER Group: SRG Date: 09/15/93

III. Problem Evaluation

System(s) Affected :
1). NC = Reactor Coolant System

Affected Equipment:

WMS Equipment ID No.	Comp. Code	Manufacturer Name

Most Probable Group Causing Event Status: CLOSED

Group INPO Cause Code(s) :
1). GSD - F4b = Documents not followed correctly

Cause(s) of Problem:

Wrong dimension taken from vessel drawing resulting in insufficient coverage during ultrasonic examination. Information obtained from Jim McArdle and approved by Bert Cheezem.

Originated by: GAGREGOR Group: GSD Date: 11/04/93

Is Cause Determination Complete (y,n) : Yes
Assigned To : JMMCARDL / CBCHEEZE Mgmt Exception: No
Orig Due Date : 08/12/93 Curr Due Date: 08/12/93 # of Ext.: 0
Approved By : CCHEEZEM Group: GSD App Date : 11/04/93

Proposed Resolution From: GSD Grp Status: CLOSED

NDE Procedure UT650 will be revised to include correct measurements based on actual weld location. This info obtained from Jim McArdle and Bert Cheezem.

Originated by: GAGREGOR Group: GSD Date: 11/04/93

Is Proposed Resolution ready for approval? (y,n): Yes
Assigned To : JMMCARDL / CBCHEEZE Mgmt Exception: No
Orig Due Date : 08/12/93 Curr Due Date : 08/12/93 # of Ext.: 0

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Approved By : CBCHEEZE Group : GSD App Date : 11/04/93

Remarks:

IV. Corrective Actions

Resp Grp: GSD
Brief Proposed Corrective Action: Orig Grp: GSD

1 Revise procedure UT650 to include correct measurements based on actual weld location.

Prop CAC: A3 Actual CAC: Outage :

Work Orders/Requests:

MOD Info: Mode:
RGC Item : RGC Item:
SRG Item : QVD Item:
INPO Item:
Actual Corrective Action Resolution From: GSD Grp Status: OPEN

Is Corrective Action ready for approval? (y,n): No
Assigned To : / Mgmt Exception: No
Orig Due Date : 10/11/93 Curr Due Date: 01/01/94 # of Ext.: 0
Approved By : Group: App Date : / /
SRG Concurrence: Date : / /

V. Final and Overall PIP Approval

Criterion XVI Review:

XVI Review Not Required for this PIP

Overall PIP Approval:
Assigned To: BRFLEENO / Due Date: / /
Approved By: Group: SRG Date: / /

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End of the Document FOR PIP No.: 2-M93-0674
The Status of this PIP No. is : OPEN

Today's Date : 09/14/93
Time : 17:12
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MSE Serial No.: 2-M93-0687
LER Serial No.:
Other Rpt. No.:

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I. Problem ID

Occurred Time/Date: : / / Discovered Time/Date: 17:00 07/22/93

Unit(s): 2 Status at Time Occurred: Unit 1 Unit 2
Mode: N/A NO MODE
% Power: N/A N/A
Unit Status Remarks: Reactor internals removed for 10 year ISI

System(s) Affected :
1). NC = Reactor Coolant System

Problem Found While Working With Work Order No.:

Location of Problem - Bldg: RX2 Elev: 747 Column Line: 280
Location Remarks: Reactor vessel inner surface

Method Used To Discover Problem:

Color video camera used for 10 year ISI (B&W supplied)

Brief Problem Description:

Through cladding gouge discovered in RV bottom head

Detailed Problem Description:

While performing the Unit 2 10 year Inservice Inspection using color video equipment, inspectors located a gouge in the reactor vessel inner surface on the bottom head. The gouge is approximately 1-1/2 inch wide, 2 inches long, and of unknown depth. The deepest section of the gouge is bright orange in color (approx. 1/2" long) and is therefore assumed to be through the cladding into the base metal. The gouge is located at about 280 degrees radially outward from tube guide #47 and very close to the lower bottom head circumferential weld.

Originated by: NEKUNKEL Group: MNE Date: 07/27/93

Other Units/Components/Systems/Areas Affected (Y,N,U): NO

Immediate Corrective Actions:

It was initially thought that this gouge was due to construction damage around 1975. NCI records dated from 1974 to 1977 were reviewed but no reference to this damage was found. Westinghouse

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was contacted and their initial record search likewise found no reference to this damage. Several reports addressing exposed base metal to a boric acid environment are available as well as experience from other units operating with similar cladding defects. This information indicate that corrosion is only likely to affect to a depth of 40 to 50 mils for a 40 year life and is therefore not a significant problem.
The ARIS equipment is scheduled to UT this weld area and will perform a detailed inspection for cracks as well as determine the gouge profile.
Management, Regulator Compliance and the NRC resident inspector have been informed of this problem.
Originated by: NEKUNKEL Group: MNE Date: 07/27/93

Corrective Action Work Order No.:

Problem Identified By: NEKUNKEL Group: MNE Date: 07/27/93
Problem Entered By : NEKUNKEL Group: MNE Date: 07/27/93

II. Significance

Is the Problem Significant? Y Action Category: 2
Significance Code: 2 - Reportable
OEP NUMBER:
Event Code(s) :
1). F5 = Alarms and Indications

Screening Remarks:

Item determined to be significant due to meeting the significance criteria.
Originated by: GDHOUSER Group: OPS Date: 07/27/93

Screened By: GDHOUSER Group: SRV Date: 07/27/93

Operability:
Sys/Comp PRESENT Operable?(Y,N,C,E): Y Rqd Mode:
Resp. Grp for Present Operability : MNE Due Date: 08/24/93
Evaluated By : NEKUNKEL Group : MNE Act Date: 08/24/93

Comments: Oper. Eval by N E Kunkel.

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Sys/Comp PAST Operable ?(Y,N,C,E): Y
Resp. Grp for Past Operability : MNE Due Date: 08/24/93
Evaluated By : NEKUNKEL Group : MNE Act Date: 08/24/93

Comments: Same as above.

Reportability:
Problem Reportable? (Y,N,E) : N
Reportable Per:
Responsible Group for Reportability: Due Date: / /
Evaluated By : DECALDWE Group : SRV Act Date: 08/25/93

Comments:

Notifications Made:
Regulatory Agency Contactee :
Duke Power Company Contactor : Date : / /
Date NRC Res. Inspector Notified: / /
Date Notified VP or Sta. Mgr. : / /
Date Notified NS Duty Engineer : / /

Investigation Report:
Resp. Group for Invest. Report : Date : / /
Investigator : Group: Date : / /
Date Due to V.P. or Station Mgr.: / /
Date Regulatory Agency Rpt. Due : / /

Date Investigation Report Apprvd: / /

NRC Cause Code(s) :

Responsible Groups for Proposed Resolution(s) :

	Original Due Date	Current Due Date	# Ext.
1). MNE = Mech/Nuclear Engr	08/21/93	08/21/93	0

Responsible Group for Cause Code Evaluation : MNE Due Date: 08/21/93

Responsible Group for Overall PIP Approval : SRV Due Date: / /

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III. Problem Evaluation

System(s) Affected :
1). NC = Reactor Coolant System

Affected Equipment:

WMS Equipment ID No.	Comp. Code	Manufacturer Name
1). MC2MNCRX0009	RX	WESTINGHOUSE

INPO Cause Code(s) :
1). N4g = Inadequate QA/QC

Cause(s) of Problem:

Although the specific cause for this indication cannot be absolutely linked with an event, it is probable that the indication was in the cladding prior to unit startup. Therefore a more thorough QC inspection might have detected it earlier. The most likey cause is either a pipe dropped into the vessel in 1978 or due to a construction platform support misalignment.

Originated by: NEKUNKEL Group: MNE Date: 08/25/93

Revised by : NEKUNKEL Group: MNE Date: 08/26/93

Revised by : RRWEIDLE Group: MNE Date: 08/26/93

Groups Responsible for Causing Event: 1.) UNK 2.)
3.) 4.)
Cause Determination Assigned to: NEKUNKEL / CDPAINTE Due Date : 08/21/93
Is Cause Determination Complete (y,n) : Yes
Approved By : RRWEIDLE Group: MNE App Date : 08/26/93
SRV Review : GDHOUSER Date : 09/02/93

Proposed Resolution From: MNE Grp Status: CLOSED

Engineering Calculation MCC-1201.01-00-0028, Rev.0 has been completed for resolution of reactor vessel operability (from Section II). This calculation reviewed the inspections used to characterize the indication, the probable cause(s), and acceptability of the indication in the as found condition. The

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conclusions of the calculation are:
1) The cladding does NOT appear to have been breached based on the physical measurements taken.
2) Conservatively assuming that the cladding was breached, the corrosion over plant life will not cause the vessel to exceed applicable ASME Code stress intensities.
3) The vessel is acceptable for continued service.

A copy of this calculation is being forwarded by MNS Reg. Compliance informally to the NRC Regional Office for review.

This indication should be inspected visually anytime the area is made accessible.

Revised by : NEKUNKEL Group: MNE Date: 08/26/93

Revised by : RRWEIDLE Group: MNE Date: 08/26/93

Is Proposed Resolution ready for approval? (Y,N) Yes
Assigned To : NEKUNKEL / CDPAINTE
Orig Due Date : 08/21/93 Curr Due Date : 08/21/93 # of Ext.: 0
Approved By : RRWEIDLE Group : MNE App Date : 08/26/93
SRV Review : GDHOUSER Date : 09/02/93

Is a Document or Physical Change to the Station Required? N
Doc Type / Doc No.

Remarks:

Originated by: NEKUNKEL Group: MNE Date: 08/26/93

IV. Corrective Actions

	Resp Grp	Prop CAC	Due Date	Act. CAC	Brief Description of Proposed Corrective Action
1	RGC	B3b	01/18/94		Follow up with NRC to resolve any questions and determine if specific reinspection requirements
	Priority :				

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|Orig. Grp: MNE |need to be determined

Actual Corrective Action Resolution From RGC

Reassigned to RGC per conversation w/ Paul Guill.
Originated by: DECALDWE Group: RGC Date: 09/03/93
Is Corrective Action ready for approval? (Y,N) No
Assigned To : /
Orig Due Date : 01/18/94 Curr Due Date: 01/18/94 # of Ext.: 0
Approved By : Group: App Date : / /
SRV Review : Date : / /

	Resp Grp	Prop CAC	Due Date	Act. CAC	Brief Description of Proposed Corrective Action
2	OEA	C3	01/18/94		Perform generic applicability review.
	Priority :				
	Orig. Grp: MNE				

Actual Corrective Action Resolution From OEA

Is Corrective Action ready for approval? (Y,N) No
Assigned To : /
Orig Due Date : / / Curr Due Date: 01/18/94 # of Ext.: 0
Approved By : Group: App Date : / /
SRV Review : Date : / /

V. Final and Overall PIP Approval

Assigned To: / Due Date: / /
Approved By: Group: SRV Date: / /

Microfilm Roll/Frame : /

End of the Document for PIP No.: 2-M93-0687
The Status of this PIP No. is : OPEN

Today's Date : 09/14/93
Time : 17:15
Page No.: 1
PIP Serial No.: 2-M93-0717

MSE Serial No.: 2-M93-0717
LER Serial No.:
Other Rpt. No.:

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

I. Problem ID

Occurred Time/Date: : / / Discovered Time/Date: 12:00 08/02/93

Unit(s): 2 Status at Time Occurred:

	Unit 1	Unit 2
Mode.	N/A	NO MODE
% Power:	N/A	N/A

Unit Status Remarks: EOC8 Outage, upper and lower internals removed

System(s) Affected :
1). NC = Reactor Coolant System

Problem Found While Working With Work Order No.:

Location of Problem - Bldg: RX2 Elev: 747 Column Line:
Location Remarks: Reactor Vessel bottom weld OD

Method Used To Discover Problem:

ARIS UT examination

Brief Problem Description:

Indication exceedes acceptable limits of ASME Section XI Code

Detailed Problem Description:

While performing the UT examination of the reactor vessel bottom weld for the Unit 2 10 year Inservice Inspection, an indication was discovered that exceedes the allowable limits of ASME Section XI (Winter 1980). The indication is located at 129-130 degrees on the lower hemisphere circumferential weld at the surface of the vessel outer diameter. The indication is planar, oriented transverse to the weld, 1/2" deep, and 2" length. Since the wall thickness is 5.69", the a/t ratio is 8.8%, which is greater than the 3% allowed by the Code.

Originated by: NEKUNKEL Group: MNE Date: 08/02/93
Revised by : NEKUNKEL Group: MNE Date: 08/03/93

Other Units/Components/Systems/Areas Affected (Y,N,U): NO

Immediate Corrective Actions:

To meet the requirements of ASME Section XI, Article IWB-3132, the vessel must be analyzed in accordance with IWB-3600 to meet the acceptance criteria within this article. This analysis is

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

being pursued internally at Duke Power.
Further UT examination and possible external examinations were determined to provide little new information, and are therefore not being pursued. Reassembly of the vessel internals may continue since further internal inspection will not be necessary.
The NRC Regional staff was informed of the indication, with clarification that this indication is not related to the earlier Unit 2 cladding gouge.
Originated by: NEKUNKEL Group: MNE Date: 08/02/93

Revised by : NEKUNKEL Group: MNE Date: 08/26/93

Corrective Action Work Order No.:

Problem Identified By: NEKUNKEL Group: MNE Date: 08/02/93
Problem Entered By : NEKUNKEL Group: MNE Date: 08/02/93

II. Significance

Is the Problem Significant? Y Action Category: 2
Significance Code: 2 - Reportable
OEP NUMBER:
Event Code(s) :
1). F = Equipment/System Concerns
2). O = Regulatory/Industry Item

Screening Remarks:

Component did not meet expectations as identified by individual observations.
This event is reportable to the NRC.
Originated by: LSDAVIS Group: MNE Date: 08/03/93
Added MSE number.
Revised by : GDHOUSER Group: SRV Date: 08/03/93
An Engineering Operability Evaluation has been received which finds the Rx vessel operable (past and present) for all modes of operation. However, Norm Kunkle will create a corrective actior to get the NRC's concurrence/approval of the fracture mechanics of the calculation prior to entry of mode 4. This is per concern/request of Regulatory Compliance (Paul Guill).
Revised by : DECALDWE Group: MMT Date: 08/16/93

MSE Serial No.: 2-M93-0717
LER Serial No.:
Other Rpt. No.:

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Per further conversation with Paul Guill, the following was provided:
In accordance with the guidance provided within GL-91-18, the reactor vessel is considered to be operable per the engineering operability evaluation. NRC approval of the evaluation is not required prior to startup as long as the acceptance criteria in IWB-3600 is met. The engineering operability evaluation documents that we meet IWB-3600. NRC approval will be obtained at a future date, but is not needed prior to startup.

Revised by : DECALDWE Group: SRV Date: 08/25/93

Screened By: NEKUNKEL Group: MNE Date: 08/03/93

Operability:
Sys/Comp PRESENT Operable?(Y,N,C,E): Y Rqd Mode:
Resp. Grp for Present Operability : MNE Due Date: 08/28/93
Evaluated By : NEKUNKEL Group : MNE Act Date: 08/25/93

Comments: Op. eval received from N. Kunkel. Operable.

Sys/Comp PAST Operable ?(Y,N,C,E): Y
Resp. Grp for Past Operability : MNE Due Date: 08/28/93
Evaluated By : NEKUNKEL Group : MNE Act Date: 08/25/93

Comments: Past operable. See above.

Reportability:
Problem Reportable? (Y,N,E) : Y
Reportable Per:
Responsible Group for Reportability: Due Date: / /
Evaluated By : DECALDWE Group : SRV Act Date: 08/25/93

Comments: Reportable per ASME Sect XI, IWB-3610. Done by RGC

Notifications Made:
Regulatory Agency Contactee :
Duke Power Company Contactor : Date : / /
Date NRC Res. Inspector Notified: / /
Date Notified VP or Sta. Mgr. : / /
Date Notified NS Duty Engineer : / /

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Investigation Report:
Resp. Group for Invest. Report : Date : / /
Investigator : Group: Date : / /
Date Due to V.P. or Station Mgr.: / /
Date Regulatory Agency Rpt. Due : / /

Date Investigation Report Apprvd: / /

NRC Cause Code(s) :

Responsible Groups for Proposed Resolution(s) :

	Original Due Date	Current Due Date	# Ext.
1). MNE = Mech/Nuclear Engr	09/01/93	09/01/93	0

Responsible Group for Cause Code Evaluation : MNE Due Date: 09/01/93

Responsible Group for Overall PIP Approval : SRV Due Date: / /

III. Problem Evaluation

System(s) Affected :
1). NC = Reactor Coolant System

Affected Equipment:

WMS Equipment ID No.	Comp. Code	Manufacturer Name
1). MC2MNCRX0009	RX	WESTINGHOUSE

INPO Cause Code(s) :
1). N4g = Inadequate QA/QC

Cause(s) of Problem:

Although a specific cause cannot be determined for this indication, it is most likely to have developed during fabrication, shipping, or construction. The examination methods use during this period were significantly less sensitive than the currently used methods and would probably not have detected this indication. Also, the fracture mechanics calculation predicts insignificant crack growth for operating conditions, so the indication is unlikely to have developed due to these

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

effects.

Originated by: NEKUNKEL Group: MNE Date: 08/26/93

Revised by : RRWEIDLE Group: MNE Date: 08/26/93

Groups Responsible for Causing Event: 1.) N/A 2.)
3.) 4.)
Cause Determination Assigned to: NEKUNKEL / CDPAINTE Due Date : 09/01/93
Is Cause Determination Complete (y,n) : Yes
Approved By : RRWEIDLE Group: MNE App Date : 08/26/93
SRV Review : GDHOUSER Date : 09/02/93

Proposed Resolution From: MNE Grp Status: CLOSED

Engineering Calculation MCC-1201.01-00-0027 evaluates this flaw using linear elastic fracture mechanics analysis methods of the ASME Boiler and Pressure Vessel Code Section XI, Appendix A and the acceptance criteria of IWB-3612. This evaluation used very conservative "bounding" conditions to allow an operability determination and as such, did not determine actual margins. Instead, compliance with the Code was shown with the worst case comparison to allowables as 86%. This calculation concludes that the flaw does not limit operation beyond any previously set criteria for the 40 year design life of the unit.

The NRC must provide approval of this calculation in accordance with the ASME Section XI Code. MNS Regulatory Compliance has the responsibility of coordinating this approval process.

Revised by : NEKUNKEL Group: MNE Date: 08/26/93

Revised by : RRWEIDLE Group: MNE Date: 08/26/93

Revised by : RRWEIDLE Group: MNE Date: 08/26/93

Is Proposed Resolution ready for approval? (Y,N) Yes
Assigned To : NEKUNKEL / CDPAINTE
Orig Due Date : 09/01/93 Curr Due Date : 09/01/93 # of Ext.: 0
Approved By : RRWEIDLE Group : MNE App Date : 08/26/93
SRV Review : GDHOUSER Date : 09/02/93

Is a Document or Physical Change to the Station Required? N

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Doc Type / Doc No.

Remarks:

Originated by: NEKUNKEL Group: MNE Date: 08/26/93

IV. Corrective Actions

	Resp Grp	Prop CAC	Due Date	Act. CAC	Brief Description of Proposed Corrective Action
1	RGC	D	01/29/94		Provide lead to ensure NRC approval of the fracture mechanics calculation.
	Priority :				
	Orig. Grp: MNE				

Actual Corrective Action Resolution From RGC

Is Corrective Action ready for approval? (Y,N) No
Assigned To : /
Orig Due Date : / / Curr Due Date: 01/29/94 # of Ext.: 0
Approved By : Group: App Date : / /
SRV Review : Date : / /

	Resp Grp	Prop CAC	Due Date	Act. CAC	Brief Description of Proposed Corrective Action
2	CES	E	01/29/94		Lead develop of reinspection requirements per ASME Section XI.
	Priority :				
	Orig. Grp: MNE				

Actual Corrective Action Resolution From CES

Is Corrective Action ready for approval? (Y,N) No
Assigned To : GJHOLBRO / JDMOTES
Orig Due Date : 01/29/94 Curr Due Date: 01/29/94 # of Ext.: 0
Approved By : Group: App Date : / /
SRV Review : Date : / /

MSE Serial No.: 2-M93-0717
LER Serial No.:
Other Rpt. No.:

MCGUIRE NUCLEAR STATION
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Problem Investigation Form

	Resp Grp	Prop CAC	Due Date	Act. CAC	Brief Description of Proposed Corrective Action
3	OEA	C3	01/29/94		Perform generic applicability review.
	Priority :				
	Orig. Grp: MNE				

Actual Corrective Action Resolution From OEA

Is Corrective Action ready for approval? (Y,N) No
Assigned To : /
Orig Due Date : / / Curr Due Date: 01/29/94 # of Ext.: 0
Approved By : Group: App Date : / /
SRV Review : Date : / /

V. Final and Overall PIP Approval

Assigned To: / Due Date: / /
Approved By: Group: SRV Date: / /

Microfilm Roll/Frame : /

End of the Document for PIP No.: 2-M93-0717
The Status of this PIP No. is : OPEN

Today's Date : 11/09/93
Time : 11:03
Page No.: 1
PIP Serial No. : 0-M91-0174

MSE Serial No. : 0-M91-0174
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

I. Problem ID

Occurred Time/Date: / / Discovered Time/Date: 14:30 09/09/91

Unit(s): 2 Status at Time Occurred: Unit 1 Unit 2
Mode: UNKNOWN UNKNOWN
% Power:

Unit Status Remarks:

System(s) Affected:
1). NC = Reactor Coolant System

Problem Found While Working With Work Order No.:

Location of Problem - Bldg: Elev: Column Line:
Location Remarks:

Method Used To Discover Problem:

Brief Problem Description:

PROBLEM WAS DISCOVERED AT ONS & AFFECTS MNS. DURING REVIEW OF ISI

Detailed Problem Description:

PROBLEM WAS DISCOVERED AT ONS & AFFECTS MNS. DURING REVIEW OF I
SI DATA, IT WAS DISCOVERED THAT INSPECTIONS HAD BEEN PERFORMED
USING WRONG ACCEPTANCE STANDARDS FOR NOZZLE TO VESSEL WELDS. SE
NT TO QA - G.O.

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

Immediate Corrective Actions:

Corrective Action Work Order No.:

Problem Identified By: V OWEN Group: MMT Date: 10/04/91
Problem Entered By : V OWEN Group: SRG Date: 10/04/91

II. Significance

MSE Serial No. : 0-M91-0174
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Is the Problem Significant? Y Action Category: 2
Significance Code: 1 - Adverse trend
MSE No.: 0-M91-0174 LER No.: Other Report No.:
OEP No.:

Event Code(s) :
1). 07 = Operating Experience Program

Screening Remarks:

Originated by: HLUNDERW Group: SRV Date: 01/12/93

Revised by : GDHOUSER Group: SRV Date: 01/18/93

Screened By: ON FILE Group: SRG Date: 10/04/91

Operability: Status: CLOSED
Sys/Comp PRESENT Operable?(Y,N,C,E): Y Rqd Mode:
Resp. Grp for Present Operability : RGC Due Date: / /
Evaluated By : Group : RGC Act Date: 10/08/91

Comments:

Sys/Comp PAST Operable ?(Y,N,C,E) : Status: OPEN
Resp. Grp for Past Operability : Due Date: / /
Evaluated By : Group : Act Date: / /

Comments:

Reportability:
Problem Reportable? (Y,N,E) : N
Reportable Per:
Responsible Group for Reportability: RGC Due Date: / /
Evaluated By : Group : RGC Act Date: 10/08/91

Comments:

Notifications Made:
Regulatory Agency Contactee : N/A
Duke Power Company Contactor : Date : / /
Date NRC Res. Inspector Notified: / /
Date Notified VP or Sta. Mgr. : / /

MSE Serial No. : 0-M91-0174
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Date Notified NS Duty Engineer : / /

Investigation Report:
Resp. Group for Invest. Report : Date : / /
Investigator : Group: Act Date : / /
Date Due to V.P. or Station Mgr.: / /
Date Regulatory Agency Rpt. Due : / /

Date Investigation Report Apprvd: / /

NRC Cause Code(s) :
1). E1 = Lack of or Inadequate Policy, Directive, Procedure

Operability Determination From: RGC Grp Status: CLOSED

Is Present Operability ready for approval? (y,n): No
Assigned To : / Mgmt Exception: No
Checked By :
Orig Due Date : / / Curr Due Date : / / # of Ext.: 0
Approved By : Group : RGC App Date : 10/08/91

Responsible Group(s) for Proposed Resolution :

	Original Due Date	Current Due Date	# Ext.
1). SRG = Safety Review	11/18/91	11/18/91	0

Responsible Group for Cause Code Evaluation : SRG Due Date: / /

Responsible Group for Overall PIP Approval : SRG Due Date: / /

III. Problem Evaluation

System(s) Affected :
1). NC = Reactor Coolant System

Affected Equipment:

WBS Equipment ID No.	Comp. Code	Manufacturer Name

Most Probable Group Causing Event Status: CLOSED
Group INPO Cause Code(s) :
1). - O3f = Test acceptance criteria not specified or clearly stated

Cause(s) of Problem:

MSE Serial No. : 0-M91-0174
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Originated by: JMWASHAM Group: SRV Date: 12/10/92

Is Cause Determination Complete (y,n) : Yes
Assigned To : / Mgmt Exception: No
Orig Due Date : / / Curr Due Date: / / # of Ext.: 0
Approved By : JMWASHAM Group: SRG App Date : 12/10/92
SRG Concurrence: JMWASHAM Date : 12/10/92

Proposed Resolution From: SRG Grp Status: CLOSED

Due to the electronic up loading of information for this PIP program, any missing PIR information can be obtained from the Safety Review files if the PIR is still OPEN. If the PIR is CLOSED, the information can be obtained from the Master File area.

Revised by : HLUNDERW Group: SRV Date: 01/12/93

Is Proposed Resolution ready for approval? (y,n): Yes
Assigned To : / Mgmt Exception: No
Orig Due Date : 11/18/91 Curr Due Date : 11/18/91 # of Ext.: 0
Approved By : ON FILE Group : SRG App Date : 03/12/92
SRG Concurrence: ON FILE Date : 03/19/92

Remarks:

IV. Corrective Actions

Resp Grp: MMT
Orig Grp: SRG

Brief Proposed Corrective Action:

1 Reexamine item number C02-021-009A during Unit 2 RFO-8.

Prop CAC: A Actual CAC: A Outage :

Work Orders/Requests:

MOD Info: Mode:
RGC Item : RGC Item:
SRG Item : QVD Item:

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

INPO Item:
Actual Corrective Action Resolution From: MMT Grp Status: CLOSED

REEXAMINED ITEM NUMBER C02-021-009A ON 8-5-93 EXAMINATION RESULTS WERE SATISFACTORY.
Originated by: AMDEVINE Group: MMT Date: 04/19/93

Revised by : AMDEVINE Group: MMT Date: 08/16/93

Revised by : RBWHITE Group: MMT Date: 08/16/93

Is Corrective Action ready for approval? (y,n): Yes
Assigned To : VSOWEN / RBRANCH Mgmt Exception: No
Orig Due Date : 09/14/93 Curr Due Date: 09/14/93 # of Ext.: 0
Approved By : RBWHITE Group: MMT App Date : 08/16/93
SRG Concurrence: BRFLEENO Date : 08/17/93

V. Final and Overall PIP Approval

Criterion XVI Review:
XVI Status : Complete GO PIP No.:
Assigned To: / Due Date: 08/17/93
Approved By: XVIADMIN Group: OEA Date: 09/23/93

Overall PIP Approval:
Assigned To: / Due Date: / /
Approved By: BRFLEENO Group: SRG Date: 08/17/93

Microfilm Roll/Frame : /

End of the Document FOR PIP No.: 0-M91-0174
The Status of this PIP No. is : CLOSED Duration of this PIP was 708 days.

Today's Date : 11/09/93
Time : 10:49
Page No.: 1
PIP Serial No. : 2-M92-0102

MSE Serial No. : 2-M92-0102
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

I. Problem ID

Occurred Time/Date: / / Discovered Time/Date: 06/04/92

Unit(s): 2 Status at Time Occurred: Unit 1 Unit 2
Mode: UNKNOWN 4
% Power:

Unit Status Remarks:

System(s) Affected:
1). SM = Main Steam System

Problem Found While Working With Work Order No.:

Location of Problem - Bldg: Elev: Column Line:
Location Remarks:

Method Used To Discover Problem:

Brief Problem Description:

REJECTABLE SURFACE `NDICATION FOUND ON WELD 2SM2FW9-9.

Detailed Problem Description:

REJECTABLE SURFACE INDICATION FOUND ON WELD 2SM2FW9-9.

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

Immediate Corrective Actions:

Corrective Action Work Order No.:

Problem Identified By: L KEITH Group: WCG Date: 06/10/92
Problem Entered By : L KEITH Group: SRG Date: 06/10/92

II. Significance

Is the Problem Significant? Y Action Category: 2
MSE No.: 2-M92-0102 LER No.: Other Report No.:

MSE Serial No. : 2-M92-0102
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

OEP No.:

Event Code(s) :

Screening Remarks:

Screened By: ON FILE Group: SRG Date: 06/10/92

Operability: Status: OPEN
Sys/Comp PRESENT Operable?(Y,N,C,E): N Rqd Mode:
Resp. Grp for Present Operability : SRG Due Date: / /
Evaluated By : Group : SRG Act Date: / /

Comments:

Sys/Comp PAST Operable ?(Y,N,C,E) : Status: OPEN
Resp. Grp for Past Operability : Due Date: / /
Evaluated By : Group : Act Date: / /

Comments:

Reportability:
Problem Reportable? (Y,N,E) : N
Reportable Per:
Responsible Group for Reportability: SRG Due Date: / /
Evaluated By : Group : SRG Act Date: 06/10/92

Comments: , E

Notifications Made:
Regulatory Agency Contactee : N/A
Duke Power Company Contactor : Date : / /
Date NRC Res. Inspector Notified: / /
Date Notified VP or Sta. Mgr. : / /
Date Notified NS Duty Engineer : / /

Investigation Report:
Resp. Group for Invest. Report : Date : / /
Investigator : Group: Act Date : / /
Date Due to V.P. or Station Mgr.: / /

MSE Serial No. : 2-M92-0102
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Date Regulatory Agency Rpt. Due : / /

Date Investigation Report Apprvd: / /

NRC Cause Code(s) :
1). X1 = Possible Inappropriate Action

Operability Determination From: SRG Grp Status: OPEN

Is Present Operability ready for approval? (y,n): No
Assigned To : / Mgmt Exception: No
Checked By :
Orig Due Date : / / Curr Due Date : / / # of Ext.: 0
Approved By : Group : SRG App Date : / /

Responsible Group(s) for Proposed Resolution :

	Original Due Date	Current Due Date	# Ext.
1). SRG = Safety Review	07/25/92	07/25/92	0

Responsible Group for Cause Code Evaluation : SRG Due Date: / /

Responsible Group for Overall PIP Approval : SRG Due Date: / /

III. Problem Evaluation

System(s) Affected :
1). SM = Main Steam System

Affected Equipment:

	WMS Equipment ID No.	Comp. Code	Manufacturer Name
1).		WE	

Most Probable Group Causing Event Status: OPEN

Group	INPO Cause Code(s) :
1). UNK -	=
2).	- N3b = Improper installation

Cause(s) of Problem:

Is Cause Determination Complete (y,n) : No
Assigned To : / Mgmt Exception: No
Orig Due Date : / / Curr Due Date: / / # of Ext.: 0

MSE Serial No. : 2-M92-0102
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Approved By :
Group: SRG
App Date : / /
SRG Concurrence: PipAdmin
Date : / /

Proposed Resolution From: SRG
Grp Status: CLOSED

Due to the electronic up loading of information, any missing PIR information is located in the Master File area.

Is Proposed Resolution ready for approval? (y,n): Yes
Assigned To : /
Mgmt Exception: No
Orig Due Date : 07/25/92
Curr Due Date : 07/25/92
# of Ext.: 0
Approved By : ON FILE
Group : SRG
App Date : 06/10/92
SRG Concurrence: ON FILE
Date : 06/10/92

Remarks:

IV. Corrective Actions

V. Final and Overall PIP Approval

Criterion XVI Review:
XVI Status : Complete
GO PIP No.:
Assigned To: /
Due Date: 06/22/92
Approved By: XVIADMIN
Group: OEA
Date: 09/23/93

Overall PIP Approval:
Assigned To: ON FILE /
Due Date: / /
Approved By: ON FILE
Group: SRG
Date: 06/22/92

Microfilm Roll/Frame : /

End of the Document FOR PIP No.: 2-M92-0102
The Status of this PIP No. is : CLOSED Duration of this PIP was 18 days.

Today's Date : 11/10/93
Time : 08:24
Page No.: 1
PIP Serial No. : 2-M93-1157

MSE Serial No. :
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

I. Problem ID

Occurred Time/Date: 08/03/93 Discovered Time/Date: 10/11/93

Unit(s): 2 Status at Time Occurred:

	Unit 1	Unit 2
Mode:	N/A	NO MODE
% Power:	N/A	0

Unit Status Remarks: Unit 2 was off line for refueling.

System(s) Affected:
1). NC = Reactor Coolant System

Problem Found While Working With Work Order No.: N/A

Location of Problem - Bldg: RX2 Elev: N/A Column Line: N/A
Location Remarks: RX Vessel Flange to Upper Shell Weld

Method Used To Discover Problem:

B&W review of McGuire and Catawba ISI plan

Brief Problem Description:

Incorrect calibration block used for inspection of MNS U2 RV

Detailed Problem Description:

Shortly after the McGuire Unit 2, 1993, 10-year reactor pressure vessel examination, it was discovered that an incorrect calibration block was used for ultrasonic examination of the flange to upper shell weld. Specifically, calibration block 50378 was utilized when block 50303 should have been used.

Originated by: GAGREGOR Group: GSD Date: 11/10/93

Other Units/Components/Systems/Areas Affected (Y,N,U): NO

Immediate Corrective Actions:

Determine if block 50378 (the one actually used) is equally, more, or less sensitive than block 50303 (the one which should have been used), for the ultrasonic transducers utilized during the above referenced examination. Also, determine if block 50378 is adequately sensitive to perform calibrations, for examination of the flange to upper shell weld using the BWNS Accusonex

MSE Serial No. :
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

System.

Originated by: GAGREGOR Group: GSD Date: 11/10/93

Corrective Action Work Order No.: n/a

Problem Identified By: WDCABE Group: GSD Date: 11/10/93
Problem Entered By : GAGREGOR Group: GSD Date: 11/10/93

II. Significance

Is the Problem Significant? Action Category:
MSE No.: LER No.: Other Report No.:
OEP No.:

Event Code(s) :

Screening Remarks:

Responsible Group(s) for Proposed Resolution :

	Original Due Date	Current Due Date	# Ext.

Responsible Group for Cause Code Evaluation : Due Date: / /

Responsible Group for Overall PIP Approval : Due Date: / /

Screened By: Group: Date: / /

III. Problem Evaluation

System(s) Affected :
1). NC = Reactor Coolant System

Affected Equipment:

WMS Equipment ID No.	Comp. Code	Manufacturer Name

Most Probable Group Causing Event Status:
Group INPO Cause Code(s) :

Cause(s) of Problem:

MSE Serial No. :
LER Serial No.:
Other Rpt. No. :

MCGUIRE NUCLEAR STATION
Problem Investigation Process
Problem Investigation Form

Is Cause Determination Complete (y,n) : No
Assigned To : /
Mgmt Exception: No
Orig Due Date : / / Curr Due Date: / / # of Ext.: 0
Approved By : Group: App Date : / /

Remarks:

IV. Corrective Actions

V. Final and Overall PIP Approval

Criterion XVI Review:

XVI Review Not Required for this PIP

Overall PIP Approval:
Assigned To: / Due Date: / /
Approved By: Group: Date: / /

End of the Document FOR PIP No.: 2-M93-1157
The Status of this PIP No. is : OPEN

10.0 Class 1 and 2 Repairs and Replacements

As required by ASME Section XI 1980 Edition, a record of the Class 1 and 2 Repairs and Replacements for work performed from March 15, 1992 through August 30, 1993 is provided and is included in this section of the report. The individual work request documents are on file at McGuire Nuclear Station.

Class 1 and 2 Repairs and Replacements

As required by ASME Section XI, 1980 Edition, a record of class 1 and 2 repairs and replacements for work performed from March 15, 1992 to September 30, 1993 is provided and is included in this section of the report. The individual work orders are in microfilm and on file at McGuire Nuclear Station.

Work Order Number	Work Order Description
89073560	2KF-20 Repair
90065259	Hanger 2MCR-NC-4057
90065261	Remove Stud on 2NC3
91109867	Disconnect Conoseal Assemblies
91110282	2NC38 and 2NC119
91110284	Hanger 2MCR-NC-4067
91117088	PM on RCP-2C
91119065	Replace Bonnet on 2SA-0005
91119504	B/U Bonnet on 2SV1
91123401	PZR Manway Closure Seal Weld
91125953	B/U Bonnet on 2ND2
91125975	Disconnect/Remove Thermocouples
92036532	PM RCP-2B
92043102	B/U Bonnet on 2SA49
92043157	Replace the (10 2-H Nut Bonnet Nut on 2NI181)
92046658	Hanger 2-MCA-SV-0053
89072267	Valve SV-13
89074577	Remove Insulation from Body of 2CF191
90076339	Replace Dics on 2NV483
90078671	Remove Bonnet Insulation
91110050	Snubber PM
91110387	Hydro Test; Disassemble Valve and Remove CA-8
91110403	IWV Valve Inspection NI60
91110404	IWV Valve Inspection NI59
91110419	Replace Disc on 2NI-21
91119165	Body to Bonnet Seal on 2BW-30
92044604	Valve 2RV76A
92059359	Weld Repair NV Piping
92059499	Weld new Valve into System

Work Order Number	Work Order Description
91077423	New Elbows SV System
91077768	New Elbows SV System
91085336	Change out 1 1/2" NC Piping
91197647	Add ND System Flow Element
91110368	Replace Studs on S/G C
91110422	Replace Disc on 2NI349
91110536	Replace Studs on S/G C
90065703	Replace Studs on S/G B
92043146	B/U Shell on 2SA Turbine
90065703	Replace Studs on B S/G