INSERVICE INSPECTION SPECIAL REPORT
FOR PRESSURE TESTING

UNIT 1 McGuire 1993 REFUELING
OUTAGE 8 - 1st TEN YEAR INSPECTION INTERVAL

Location: Hwy 73, Cowans Ford, North Carolina

National Board No. 44

Commercial Service Date: December 1, 1981

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

Revision 0

NOTE: This is a special report for the remaining items from the 1st ten year inspection interval. Refer to the Inservice Inspection Report for McGuire Unit 1, Outage 8, for inspection items for the 2nd ten year inspection interval.

Prepared By: Jim Baughman *Date* 7/7/93

Reviewed By: R G Rouse *Date* 7/7/93

Approved By: J Barlow *Date* 7/8/93

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

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Power Company, 422 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)

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

3. Plant Unit: 1 4. Owner Certificate of Author tion (if required) N/A

5. Commercial Service Date: December 1, 1991 6.National Board Number for Unit 44

7. Components Inspected:

Component or Appurentance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Providence No.	National Board No.
	See paragraph 1.1 of the attached report			

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8^1/_2$ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

47 Pages

FORM NIS-1 (back)

8. Examination Dates 12/7/91 to 6/12/93 9. Inspection Interval from 12/1/81 to 12/1/91

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 7/8 19 93 Signed Duke Power Co. By [signature]
Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of N.C. and employed by *The HSBI&I Co. of HARTFORD, CONN. have inspected the components described in this Owners Data Report during the period 12-7-91 to 6-12-93 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 8-10-93 19 93

RDKlein 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

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1.0 General Information

This is a special report that describes Duke Power Company's McGuire Nuclear Station Unit 1 remaining first ten year Inservice Inspection Pressure Testing during the 1993 Refueling Outage.

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.

1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator 1A	Westinghouse	1461	NC-178375	68-107
Steam Generator 1B	Westinghouse	1462	NC-178376	68-108
Steam Generator 1C	Westinghouse	1463	NC-178377	68-109
Steam Generator 1D	Westinghouse	1464	NC-178378	68-110
Residual Heat Removal Heat Exchanger	Joseph Oat & Sons, Inc.	1A 2046-2A 1B 2046-2A	NC-234202 NC-234201	635 636
Reactor Coolant System	Duke Power Co.	NC	N/A	28
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	29
Refueling Water System	Duke Power Co.	FW	N/A	31
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	32
Residual Heat Removal System	Duke Power Co.	ND	N/A	35
Nuclear Service Water System	Duke Power Co.	RN	N/A	36

1.1 Identification Numbers
Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Main Feedwater System	Duke Power Co.	CF	N/A	39
Containment Spray System	Duke Power Co.	NS	N/A	40
Containment Ventilation Cooling Water System	Duke Power Co.	RV	N/A	41
Safety Injection System	Duke Power Co.	NI	N/A	42
Safety Injection Accumulator Tank 1A	Delta Southern Co	41617-72-1	NC-178396	3038
Safety Injection Accumulator Tank 1B	Delta Southern Co	41617-72-2	NC-178397	3039
Safety Injection Accumulator Tank 1C	Delta Southern Co	41617-72-3	NC-178398	3040
Safety Injection Accumulator Tank 1D	Delta Southern Co	41617-72-4	NC-178399	3041

1.2 Authorized Nuclear Inservice Inspector(s)

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

2.0 Summary of Inservice Pressure Test Inspections for Outage 8 - First Ten Year Inspection Interval

The information shown below provides an abstract of ASME Section XI Class 1 and Class 2 Pressure Test Items scheduled and examined during Outage 8 at McGuire Nuclear Station Unit 1 for the first ten year inspection interval.

2.1 Class 1 Inspection

Section XI 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	0	0
B15.011	Pressure Retaining Boundary	0	0
	Pressurizer		
B15.020	Pressure Retaining Boundary	0	0
B15.021	Pressure Retaining Boundary	0	0
	Steam Generators		
B15.030	Pressure Retaining Boundary	0	0
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	0	0
B15.051	Pressure Retaining Boundary	1	1

Section XI Category B-P All Pressure Retaining Components

CONTINUED

Pumps			
B15.060	Pressure Retaining Boundary	0	0
B15.061	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		1	1

2.2 Class 2 Inspection

Section XI Category C-H All Pressure Retaining Components

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pressure Vessels		
C07.010	Pressure Retaining Components	0	0
C07.011	Pressure Retaining Components	11	11
	Piping		
C07.020	Pressure Retaining Components	0	0
C07.021	Pressure Retaining Components	43	43
	Pumps		
C07.030	Pressure Retaining Components	0	0
C07.031	Pressure Retaining Components	2	2
	Valves		
C07.040	Pressure Retaining Components	Covered in C07.020	Covered in C07.020
C07.041	Pressure Retaining Components	Covered in C07.021	Covered in C07.021
TOTALS		56	56

A detailed description of each examination listed in Sections 2.1 and 2.2 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 Interval Pressure Test Inspection Status

The completion status of Pressure Test inspections required by the 1980 ASME Code Section XI 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, in Table IWC-2500-1 for Class 2 Inspections.

Class 1 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
B-P	All Pressure Retaining Components				
	System Leakage Test	133	133	100%	No
	System Hydrostatic Test	22	22	100%	Yes

Class 2 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
C-H	All Pressure Retaining Components				
	System or Component Functional Test	43	43	100%	No
	System Hydrostatic Test	77	77	100%	Yes

4.0 Final Inservice Pressure Test Inspection Plan For Outage 8 - First Ten Year Inspection Interval

The final ISI Plan presented in this section lists all Pressure Test examinations credited for Outage 8, first ten year inspection interval, at McGuire Unit 1. This includes ASME Section XI Class 1 and Class 2 examinations required by the plant technical specifications, NRC Bulletins and Problem Investigation Process Forms.

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

Item No.	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2) and IWD-2500-1 (Class 3)
Drawing	=	Detail Drawing of inspection boundary
Rev	=	Revision of Detail Drawing
Test	=	Type of Pressure Test
Comp	=	Type of Pressure Retaining Component
Comp Name	=	Name of Pressure Retaining Component
Req. Insp	=	Examination Technique
Req. Proc	=	Examination Procedure

McGUIRE UNIT NUMBER 1
CLASS A (CATEGORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
B15.051.006	MC-1554-1.2	16	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15

McGUIRE UNIT NUMBER 1
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.011.001	MC-1591-1.1	14	HYDRO	VESSEL	STEAM GENERATOR 1A	VT2	QAL-15
C07.011.002	MC-1591-1.1	14	HYDRO	VESSEL	STEAM GENERATOR 1B	VT2	QAL-15
C07.011.003	MC-1591-1.1	14	HYDRO	VESSEL	STEAM GENERATOR 1C	VT2	QAL-15
C07.011.004	MC-1591-1.1	14	HYDRO	VESSEL	STEAM GENERATOR 1D	VT2	QAL-15
C07.011.011	MC-1561-1.0	16	HYDRO	VESSEL	RHR HT EXCHANGER 1A	VT2	QAL-15
C07.011.012	MC-1561-1.0	16	HYDRO	VESSEL	RHR HT EXCHANGER 1B	VT2	QAL-15
C07.011.013	MC-1562-2.0	14	HYDRO	VESSEL	SFTY INJ ACC TANK 1A	VT2	QAL-15
C07.011.014	MC-1562-2.0	14	HYDRO	VESSEL	SFTY INJ ACC TANK 1B	VT2	QAL-15
C07.011.015	MC-1562-2.1	12	HYDRO	VESSEL	SFTY INJ ACC TANK 1C	VT2	QAL-15
C07.011.016	MC-1562-2.1	12	HYDRO	VESSEL	SFTY INJ ACC TANK 1D	VT2	QAL-15
C07.011.022	MC-1571-1.0	15	HYDRO	VESSEL	REFUELING WATER TANK	VT2	QAL-15
C07.021.004	MC-1553-4.0	10	HYDRO	PIPING	NC SYSTEM	VT2	QAL-15
C07.021.005	MC-1554-1.0	12	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.006	MC-1554-1.1	09	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.007	MC-1554-1.2	17	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.008	MC-1554-1.3	03	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.009	MC-1554-2.0	17	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15

McGUIRE UNIT NUMBER 1
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.021.010	MC-1554-3.0	16	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.011	MC-1554-3.1	13	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.012	MC-1554-4.0	11	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
C07.021.016	MC-1556-3.0	15	HYDRO	PIPING	NB SYSTEM	VT2	QAL-15
C07.021.017	MC-1561-1.0	16	HYDRO	PIPING	ND SYSTEM	VT2	QAL-15
C07.021.018	MC-1562-1.0	17	HYDRO	PIPING	NI SYSTEM	VT2	QAL-15
C07.021.019	MC-1562-2.0	14	HYDRO	PIPING	NI SYSTEM	VT2	QAL-15
C07.021.020	MC-1562-2.1	12	HYDRO	PIPING	NI SYSTEM	VT2	QAL-15
C07.021.021	MC-1562-3.1	06	HYDRO	PIPING	NI SYSTEM	VT2	QAL-15
C07.021.023	MC-1563-1.0	17	HYDRO	PIPING	NS SYSTEM	VT2	QAL-15
C07.021.027	MC-1571-1.0	15	HYDRO	PIPING	FW SYSTEM	VT2	QAL-15
C07.021.028	MC-1572-1.0	14	HYDRO	PIPING	NM SYSTEM	VT2	QAL-15
C07.021.031	MC-1572-3.0	14	HYDRO	PIPING	NM SYSTEM	VT2	QAL-15
C07.021.033	MC-1580-1.0	20	HYDRO	PIPING	BB SYSTEM	VT2	QAL-15
C07.021.034	MC-1584-1.0	05	HYDRO	PIPING	BW SYSTEM	VT2	QAL-15
C07.021.035	MC-1591-1.1	14	HYDRO	PIPING	CF SYSTEM	VT2	QAL-15
C07.021.036	MC-1592-1.0	19	HYDRO	PIPING	CA SYSTEM	VT2	QAL-15

McGUIRE UNIT NUMBER 1
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.021.037	MC-1593-1.0	20	HYDRO	PIPING	SV/SM SYSTEM	VT2	QAL-15
C07.021.038	MC-1593-1.2	13	HYDRO	PIPING	TE/SA SYSTEM	VT2	QAL-15
C07.021.039	MC-1593-1.3	11	HYDRO	PIPING	SM/SV SYSTEM	VT2	QAL-15
C07.021.040	MC-1617-1.0	08	HYDRO	PIPING	YA SYSTEM	VT2	QAL-15
C07.021.041	MC-1562-3.0	11	HYDRO	PIPING	NI SYSTEM	VT2	QAL-15
C07.021.042	MC-1553-2.1	00	HYDRO	PIPING	NC SYSTEM	VT2	QAL-15
C07.021.043	MC-1565-1.0	19	HYDRO	PIPING	WL SYSTEM	VT2	QAL-15
C07.021.044	MC-1565-1.1	11	HYDRO	PIPING	WL SYSTEM	VT2	QAL-15
C07.021.045	MC-1558-4.0	13	HYDRO	PIPING	NF SYSTEM	VT2	QAL-15
C07.021.046	MC-1599-2.2	08	HYDRO	PIPING	RF SYSTEM	VT2	QAL-15
C07.021.047	MC-1601-2.4	16	HYDRO	PIPING	YM SYSTEM	VT2	QAL-15
C07.021.048	MC-1605-1.14	02	HYDRO	PIPING	VI SYSTEM	VT2	QAL-15
C07.021.049	MC-1605-1.2	14	HYDRO	PIPING	VI SYSTEM	VT2	QAL-15
C07.021.050	MC-1605-3.1	11	HYDRO	PIPING	VB SYSTEM	VT2	QAL-15
C07.021.051	MC-1605-1.17	02	HYDRO	PIPING	VI SYSTEM	VT2	QAL-15
C07.021.052	MC-1605-1.3	08	HYDRO	PIPING	VI SYSTEM	VT2	QAL-15
C07.021.053	MC-1573-3.1	07	HYDRO	PIPING	KC SYSTEM	VT2	QAL-15

McGUIRE UNIT NUMBER 1
CLASS B (CATEGORY C-H) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
C07.021.054	MC-1604-3.0	18	HYDRO	PIPING	RV SYSTEM	VT2	QAL-15
C07.021.055	MC-1565-7.0	19	HYDRO	PIPING	WL SYSTEM	VT2	QAL-15
C07.021.056	MC-1605-2.2	05	HYDRO	PIPING	VS SYSTEM	VT2	QAL-15
C07.031.004	MC-1561-1.0	16	HYDRO	PUMP	RHR PUMP 1A	VT2	QAL-15
C07.031.005	MC-1561-1.0	16	HYDRO	PUMP	RHR PUMP 1B	VT2	QAL-15

McGUIRE UNIT NUMBER 1
CLASS C (CATEGORY D-A) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
D01.012.002	MC-1554-2.0	17	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
D01.012.005	MC-1554-5.0	13	HYDRO	PIPING	NV SYSTEM	VT2	QAL-15
D01.012.019	MC-1565-2.0	13	HYDRO	PIPING	WL SYSTEM	VT2	QAL-15

McGUIRE UNIT NUMBER 1
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-1609-3.0	19	LEAK	PIPING	FD SYSTEM	VT2	QAL-15
D02.011.025	MC-1609-3.1	10	LEAK	PIPING	FD SYSTEM	VT2	QAL-15
D02.012.003	MC-1573-1.1	07	HYDRO	PIPING	KC SYSTEM	VT2	QAL-15
D02.012.010	MC-1574-1.0	21	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.011	MC-1574-1.1	17	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.012	MC-1574-2.0	28	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.013	MC-1574-2.1	13	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.014	MC-1574-3.0	29	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.015	MC-1574-3.1	12	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.018	MC-1592-1.1	13	HYDRO	PIPING	CA SYSTEM	VT2	QAL-15
D02.012.020	MC-1609-1.0	15	HYDRO	PIPING	KD SYSTEM	VT2	QAL-15
D02.012.021	MC-1609-1.1	09	HYDRO	PIPING	KD SYSTEM	VT2	QAL-15
D02.012.024	MC-1609-3.0	19	HYDRO	PIPING	FD SYSTEM	VT2	QAL-15
D02.012.028	MC-2604-3.0	10	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.029	MC-2574-4.0	06	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15
D02.012.030	MC-2574-1.1	12	HYDRO	PIPING	RN SYSTEM	VT2	QAL-15

McGU[illegible]E UNIT NUMBER 1
CLASS C (CATEGORY D-C) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC
D03.012.001	MC-1570-1.0	13	HYDRO	PIPING	KF SYSTEM	VT2	QAL-15

5.0 Results Of Pressure Testing Inspections Performed During Outage 8 - First Ten Year Inspection Interval

4.1 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.

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

Item No.	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2) and IWD-2500-1 (Class 3)
Drawing	=	Detail Drawing of inspection boundary
Examination Date	=	Date of latest examination
Condition	=	Partial - Part of component examined Complete - All of component examined
Status	=	Clear Recordable Reportable

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
B15.051.006	MC-1554-1.2	02/19/92	COMPLETE	CLEAR
C07.011.001	MC-1591-1.1	06/10/93	COMPLETE	CLEAR
C07.011.002	MC-1591-1.1	06/10/93	COMPLETE	CLEAR
C07.011.003	MC-1591-1.1	06/10/93	COMPLETE	CLEAR
C07.011.004	MC-1591-1.1	06/10/93	COMPLETE	CLEAR
C07.011.011	MC-1561-1.0	03/17/93	COMPLETE	CLEAR
C07.011.012	MC-1561-1.0	03/17/93	COMPLETE	CLEAR
C07.011.013	MC-1562-2.0	06/09/93	COMPLETE	CLEAR
C07.011.014	MC-1562-2.0	06/09/93	COMPLETE	CLEAR
C07.011.015	MC-1562-2.1	06/09/93	COMPLETE	CLEAR
C07.011.016	MC-1562-2.1	06/09/93	COMPLETE	CLEAR
C07.011.022	MC-1571-1.0	12/11/91	COMPLETE	CLEAR
C07.021.004	MC-1553-4.0	06/06/93	COMPLETE	CLEAR
C07.021.005	MC-1554-1.0	06/10/93	COMPLETE	CLEAR
C07.021.006	MC-1554-1.1	06/10/93	COMPLETE	CLEAR
C07.021.007	MC-1554-1.2	06/10/93	COMPLETE	CLEAR
C07.021.008	MC-1554-1.3	06/10/93	COMPLETE	CLEAR

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.021.009	MC-1554-2.0	09/16/92	COMPLETE	RECORDABLE
C07.021.010	MC-1554-3.0	06/10/93	COMPLETE	CLEAR
C07.021.011	MC-1554-3.1	12/11/91	COMPLETE	CLEAR
C07.021.012	MC-1554-4.0	09/16/92	COMPLETE	CLEAR
C07.021.016	MC-1556-3.0	06/04/93	COMPLETE	CLEAR
C07.021.017	MC-1561-1.0	03/18/93	COMPLETE	RECORDABLE
C07.021.018	MC-1562-1.0	06/09/93	COMPLETE	RECORDABLE
C07.021.019	MC-1562-2.0	06/09/93	COMPLETE	CLEAR
C07.021.020	MC-1562-2.1	06/09/93	COMPLETE	CLEAR
C07.021.021	MC-1562-3.1	06/09/93	COMPLETE	CLEAR
C07.021.023	MC-1563-1.0	03/17/93	COMPLETE	CLEAR
C07.021.027	MC-1571-1.0	03/24/93	COMPLETE	RECORDABLE
C07.021.028	MC-1572-1.0	06/10/93	COMPLETE	CLEAR
C07.021.031	MC-1572-3.0	06/10/93	COMPLETE	CLEAR
C07.021.033	MC-1580-1.0	06/10/93	COMPLETE	CLEAR
C07.021.034	MC-1584-1.0	06/10/93	COMPLETE	CLEAR
C07.021.035	MC-1591-1.1	06/10/93	COMPLETE	RECORDABLE

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.021.036	MC-1592-1.0	06/10/93	COMPLETE	CLEAR
C07.021.037	MC-1593-1.0	06/10/93	COMPLETE	CLEAR
C07.021.038	MC-1593-1.2	06/10/93	COMPLETE	CLEAR
C07.021.039	MC-1593-1.3	06/10/93	COMPLETE	CLEAR
C07.021.040	MC-1617-1.0	06/10/93	COMPLETE	CLEAR
C07.021.041	MC-1562-3.0	06/09/93	COMPLETE	CLEAR
C07.021.042	MC-1553-2.1	06/06/93	COMPLETE	CLEAR
C07.021.043	MC-1565-1.0	04/01/93	COMPLETE	RECORDABLE
C07.021.044	MC-1565-1.1	03/24/93	COMPLETE	CLEAR
C07.021.045	MC-1558-4.0	06/03/93	COMPLETE	CLEAR
C07.021.046	MC-1599-2.2	03/24/93	COMPLETE	CLEAR
C07.021.047	MC-1601-2.4	03/18/93	COMPLETE	CLEAR
C07.021.048	MC-1605-1.14	04/06/93	COMPLETE	CLEAR
C07.021.049	MC-1605-1.2	04/06/93	COMPLETE	CLEAR
C07.021.050	MC-1605-3.1	04/06/93	COMPLETE	CLEAR
C07.021.051	MC-1605-1.17	04/06/93	COMPLETE	CLEAR
C07.021.052	MC-1605-1.3	04/06/93	COMPLETE	CLEAR

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
C07.021.053	MC-1573-3.1	03/16/93	COMPLETE	CLEAR
C07.021.054	MC-1604-3.0	06/04/93	COMPLETE	CLEAR
C07.021.055	MC-1565-7.0	03/18/93	COMPLETE	CLEAR
C07.021.056	MC-1605-2.2	04/13/93	COMPLETE	CLEAR
C07.031.004	MC-1561-1.0	03/17/93	COMPLETE	CLEAR
C07.031.005	MC-1561-1.0	03/17/93	COMPLETE	CLEAR
D01.012.002	MC-1554-2.0	02/12/92	COMPLETE	CLEAR
D01.012.005	MC-1554-5.0	05/19/92	COMPLETE	CLEAR
D01.012.019	MC-1565-2.0	02/11/92	COMPLETE	CLEAR
D02.011.024	MC-1609-3.0	08/19/92	COMPLETE	CLEAR
D02.011.025	MC-1609-3.1	09/28/92	COMPLETE	CLEAR
D02.012.003	MC-1573-1.1	02/01/93	COMPLETE	CLEAR
D02.012.010	MC-1574-1.0	02/01/93	COMPLETE	CLEAR
D02.012.011	MC-1574-1.1	02/01/93	COMPLETE	CLEAR
D02.012.012	MC-1574-2.0	02/01/93	COMPLETE	RECORDABLE
D02.012.013	MC-1574-2.1	02/01/93	COMPLETE	RECORDABLE
D02.012.014	MC-1574-3.0	10/06/92	COMPLETE	CLEAR

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS
D02.012.015	MC-1574-3.1	10/06/92	COMPLETE	CLEAR
D02.012.018	MC-1592-1.1	05/27/92	COMPLETE	CLEAR
D02.012.020	MC-1609-1.0	02/01/93	COMPLETE	CLEAR
D02.012.021	MC-1609-1.1	10/06/92	COMPLETE	RECORDABLE
D02.012.024	MC-1609-3.0	01/06/92	COMPLETE	RECORDABLE
D02.012.028	MC-2604-3.0	02/15/92	COMPLETE	CLEAR
D02.012.029	MC-2574-4.0	02/15/92	COMPLETE	CLEAR
D02.012.030	MC-2574-1.1	11/16/92	COMPLETE	CLEAR
D03.012.001	MC-1570-1.0	01/25/93	COMPLETE	RECORDABLE

6.0 Reportable Indications

None

7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice Pressure Test inspections from December 7, 1991 to June 12, 1993 at McGuire 1 were certified in accordance with the requirements of 1980 Edition of ASME Section XI. 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.

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.

8.0 Corrective Action

Corrective Action to document reportable items was not required during Outage 8 - first ten year inspection interval.

9.0 Reference Documents

The following reference documents apply to the inservice Pressure Test inspection performed during Outage 8 - first ten year interval at McGuire Unit 1:

- Duke Power Company Request for Relief No. 90-02
- Duke Power Company Request for Relief No. 92-02
- Duke Power Company Request for Relief No. 93-02

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

January 30, 1992

Docket No. 50-369

Mr. T. C. McMeekin
Vice President, McGuire Site
Duke Power Company
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

Dear Mr. McMeekin:

SUBJECT: SAFETY EVALUATION ON RELIEF REQUEST NO. 90-02 (TAC NO. M79188)

By letter dated November 19, 1990, as revised July 13, 1991 and October 2, 1991, Duke Power Company (DPC) requested relief from ASME Code Section XI inservice inspection (ISI) and hydrostatic pressure test requirements for McGuire Nuclear Station Unit 1. Specifically, DPC requested relief from the provisions of subparagraph IWA-2400(c) to add four weeks to the ten-year ISI interval (plus the twelve month extension allowed by IWA-2400 (c)) to ensure that McGuire Unit 1 can operate until the end-of-cycle 8 refueling outage currently scheduled to begin December 11, 1992.

The NRC staff has reviewed and evaluated Relief Request 90-02. Enclosed is our Safety Evaluation wherein we conclude that the proposed extension of the ASME Code ISI interval requirements is acceptable. Accordingly, relief is granted as requested, pursuant to 10 CFR 50.55a(g)(6)(i). This relief is authorized by law and will not endanger life or property or the common defense and security, and is otherwise in the public interest, given due consideration to the burden that could result if the requirements were imposed on your facility.

This concludes our review activities in response to your submittals regarding Relief Request 90-02 addressed by TAC number M79188.

Sincerely,

DBMatthews

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

Mr. T. C. McMeekin
Duke Power Company

McGuire Nuclear Station

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

SAFETY EVALUATION REPORT

OF THE FIRST TEN-YEAR INTERVAL INSERVICE INSPECTION

REQUEST FOR RELIEF NO. 90-02

FOR

DUKE POWER COMPANY

MCGUIRE NUCLEAR STATION, UNIT 1

DOCKET NUMBER: 50-369

1.0 INTRODUCTION

The Technical Specifications for McGuire Nuclear Station, Unit 1, state that the surveillance requirements for Inservice Inspection and Testing of the American Society of Mechanical Engineers (ASME) Code Class 1, 2, and 3 components shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50.55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50.55a(g)(6)(i). In 10 CFR 50.55a(a)(3)(i) it is stated that alternatives to the requirements of paragraph (g) may be used if the proposed alternatives would provide an acceptable level of quality or safety.

Pursuant to 10 CFR 50.55a(g)(4), ASME Code Class 1, 2, and 3 components (including supports) shall meet the requirements, except the design and access provisions and the preservice examination requirements, set forth in the ASME Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," to the extent practical within the limitations of design, geometry, and materials of construction of the components. The regulations require that inservice examination of components and system pressure tests conducted during the first ten-year interval comply with the requirements in the latest edition and addenda of Section XI of the ASME Code incorporated by reference in 10 CFR 50.55a(b) on the date twelve months prior to the date of issuance of the operating license, subject to the limitations and modifications listed therein. The applicable edition of Section XI of the ASME Code for the McGuire Nuclear Station, Unit 1, first ten-year inservice inspection (ISI) interval is the 1980 Edition, through Winter 1980 Addenda. The components (including supports) may meet the requirements set forth in subsequent editions and addenda of the ASME Code incorporated by reference in 10 CFR 50.55a(b) subject to the limitations and modifications listed therein.

Pursuant to 10 CFR 50.55a(g)(5), if the licensee determines that conformance with an examination requirement of Section XI of the ASME Code is not practical for his facility, information shall be submitted to the Commission in support of that determination and a request made for relief from the ASME Code requirement. After evaluation of the determination, pursuant to 10 CFR 50.55a(a)(3)(i), the Director of the Office of Nuclear Reactor Regulation may authorize proposed

alternatives to 10 CFR 50.55a(g) when the proposed alternatives would provide an acceptable level of quality and safety. Under 10 CFR 50.55a(g)(6)(ii), the Commission may require the licensee to follow an augmented inservice inspection program for systems and components which the Commission deems that added assurance of structural reliability is necessary.

By letter dated November 19, 1990 as revised July 13, 1991 and October 2, 1991, Duke Power Company submitted Relief Request No. 90-02, which requested relief from the limits on the one-year extension of the ten-year inservice inspection interval requirements of subparagraph IWA-2400(c).

2.0 EVALUATION

The staff has evaluated the information provided by the licensee in support of Relief Request No. 90-02 as follows:

Request for Relief No. 90-02, Subarticle IWA-2400, Inspection Intervals

Code Requirement: Subparagraph IWA-2400(c), states that: "Each inspection interval may be decreased or extended (but not cumulatively) by as much as 1 year. For power units that are out of service continuously for 6 months or more, the inspection interval during which the outage occurred may be extended for a period equivalent to the outage."

Licensee's Request for Relief: The licensee requests that four weeks be added to the ten-year inservice inspection interval in addition to the twelve-month extension allowed by the ASME Code. This relief would apply to Class 2 and Class 3 portions of systems and components identified in the McGuire Unit 1 inservice inspection program which have not been hydrostatically tested as required for the first interval.

Licensee's Basis for Requesting Relief: When the original inservice inspection plan for McGuire Nuclear Station was developed in the early 1980 time frame, it was assumed that there would be ten refueling outages during the initial ten-year interval for Unit 1. Accordingly, the required hydrostatic testing of all systems and components was scheduled in such a manner to assure that testing was completed by the tenth refueling outage.

Midway through this ten-year interval, the cycle lengths for operation of Unit 1 were increased from twelve to eighteen months. As a result of this change, the actual number of refueling outages during this ten-year interval was reduced by three. As such, there would be only seven refueling outages during the first ten-year interval to complete all of the required hydrostatic tests instead of the original planned ten refueling outages.

McGuire Unit 1 has recently completed its end-of-cycle 7 refueling outage. The end-of-cycle 8 refueling outage for Unit 1 is currently scheduled to begin December 11, 1992, which is outside of the additional twelve-month extension allowed by the ASME Code. The current ten-year inservice inspection interval ends on December 1, 1991. As allowed by the ASME Code, the ten-year interval can be extended an additional one year (twelve months) to December 1, 1992. As currently scheduled, the end-of-cycle 8 refueling outage would begin after the the extended ten-year inservice inspection interval expires. The licensee's request to add four weeks to the ten-year interval plus the one year extension allowed by the Code will ensure that McGuire Unit 1 can operate until December 12, 1992, the start of end-of-cycle 8 refueling outage. The four week extension will also provide a contingency period in the event of unforeseen extensions of the outage schedule.

McGuire Unit 1 has completed 90% of the outage related Class C (3) hydrostatic tests to date. In addition, approximately 50% of Class B (2) hydrostatic tests are complete. During the end-of-cycle 8 refueling outage, the remainder of the hydrostatic tests will be completed.

Licensee's Proposed Alternatives: None. The required examinations will be performed. The only change will be the time the examinations will be performed.

Staff Evaluation: At McGuire to date, all inservice and functional inspections have revealed no evidence of failed welds in pressure retaining piping systems. The staff believes that the planned extension of an eleven year interval as allowed by the Code for an additional 28 days (12 to comply with the present planned schedule plus 16 for unplanned contingencies) has no effect on the level of quality and safety for the 50% portion of the Class B (2) systems and components which are to be hydrostatically tested during refueling outage 8. The testing to date of all of the remaining systems and components would have revealed the presence of any serious degrading mechanism.

Although not stated by the licensee, there is a premise for granting this relief since approximately 99% of the hydrostatic tests of Class A (1) systems (and portions thereof which are subjected to hydrotest pressure during tests of Class B (2) systems) and components have been completed to date.

3.0 CONCLUSION

Pursuant to 10 CFR 50.55a(g)(5)(iii), the Licensee determined that conformance with certain Code requirements is impractical for his facility and submitted supporting information. The staff concludes by 10 CFR 50.55a(g)(6)(i) that an extension of the Code-allowed eleven-year inservice inspection interval for an additional 28 days is authorized by law and will not endanger life, property, or the common defense and security, and is otherwise in the public interest. The relief granted does not apply to Class A (1) components or systems.

4.0 RECOMMENDATIONS

The licensee should note that the end date of the second ten-year interval has not been changed by either the code-allowed extension of one year or by the granting of the requested relief for the first ten-year interval. The required inspections of the second ten-year interval will have to be accomplished in a shorter time frame than the first interval, and as the fuel cycle is longer, in fewer refueling outages. The rate of inspections will be considerably greater. With the added service time accumulated during the second ten-year interval, the extension of the second interval for the same bases that the first interval was extended would not be prudent because of increased wear, erosion, etc. without extensive justification.

Principal Contributor: D. E. Smith

Dated: January 30, 1992

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

December 28, 1992

Docket No. 50-369

Mr. T. C. McMeekin
Vice President, McGuire Site
Duke Power Company
12700 Hagers Ferry Road
Huntersville, North Carolina 28078-8985

Dear Mr. McMeekin:

SUBJECT: SAFETY EVALUATION ON ISI RELIEF REQUEST NO. 92-02 (TAC NO. M84346)

By letter dated August 19, 1992, Duke Power Company (DPC) submitted an ISI Relief Request 92-02 for McGuire Nuclear Station Unit 1. Relief Request 92-02 requests extension of the first ten-year ISI interval to coincide with the start of the end-of-cycle 8 refueling outage for McGuire Unit 1. The staff previously approved a similar request (RR 90-02); however, subsequent unit outages necessitated the need for the current request.

The enclosed Safety Evaluation provides the results of the staff's review of the requested relief. The relief is granted until the end of the McGuire Unit 1 cycle 8 refueling outage. If the licensee determines that continued relief is required, a revised relief request will be required.

Accordingly, relief is granted as requested, pursuant to 10 CFR 50.55a(g)(6)(i). This relief is authorized by law and will not endanger life or property or the common defense and security, and is otherwise in the public interest, given due consideration to the burden that could result if the requirements were imposed on your facility.

This concludes our review activities of Relief Request 92-02.

Sincerely,

[signature] for

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

cc:

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO THE INSERVICE INSPECTION PROGRAM RELIEF REQUEST

DUKE POWER COMPANY

MCGUIRE NUCLEAR STATION, UNIT 1

DOCKET NO. 50-369

1.0 INTRODUCTION

The Technical Specifications for McGuire Nuclear Station, Unit 1, state that the surveillance requirements for Inservice Inspection and Testing of the American Society of Mechanical Engineers (ASME) Code Class 1, 2, and 3 components shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50.55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50.55a(g)(6)(i). Under 10 CFR 50.55a(a)(3)(i) alternatives to the requirements of paragraph (g) may be used if the proposed alternatives would provide an acceptable level of quality or safety.

Pursuant to 10 CFR 50.55a(g)(4), ASME Code Class 1, 2, and 3 components (including supports) shall meet the requirements, except the design and access provisions and the preservice examination requirements, set forth in the ASME Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," to the extent practical within the limitations of design, geometry, and materials of construction of the components. The regulations require that inservice examination of components and system pressure tests conducted during the first ten-year interval comply with the requirements in the latest edition and addenda of Section XI of the ASME Code incorporated by reference in 10 CFR 50.55a(b) on the date twelve months prior to the date of issuance of the operating license, subject to the limitations and modifications listed therein. The applicable edition of Section XI of the ASME Code for the McGuire Nuclear Station, Unit 1, first ten-year inservice inspection (ISI) interval is the 1980 Edition, through Winter 1980 Addenda. The components (including supports) may meet the requirements set forth in subsequent editions and addenda of the ASME Code incorporated by reference in 10 CFR 50.55a(b) subject to the limitations and modifications listed therein.

Pursuant to 10 CFR 50.55a(g)(5), if the licensee determines that conformance with an examination requirement of Section XI of the ASME Code is not practical for his facility, information shall be submitted to the Commission in support of that determination and a request made for relief from the ASME Code requirement. After examination of the determination, pursuant to 10 CFR 50.55a(a)(3)(i), the Director of the Office of Nuclear Reactor Regulation may

authorize proposed alternatives to 10 CFR 50.55a(g) when the proposed alternatives would provide an acceptable level of quality and safety. Under 10 CFR 50.55a(g)(6)(ii), the Commission may require the licensee to follow an augmented inservice inspection program for systems and components when the Commission deems that added assurance of structural reliability is necessary.

In a letter dated August 19, 1992, the Duke Power Company submitted Relief Request No. 92-02, which requested relief from the limits on the one-year extension of the ten-year inservice inspection interval requirements of subparagraph IWA-2400(c). This request was essentially an amendment to a previous Relief Request (RR 90-02) that was evaluated by the NRC staff in a Safety Evaluation transmitted by letter dated January 30, 1992.

2.0 EVALUATION

The staff has evaluated the information provided by the licensee in support of Relief Request No. 92-02 as follows.

2.1 Request for Relief No. 92-02, Subarticle IWA-2400, Inspection Intervals

Code Requirement: Subparagraph IWA-2400(c), states that: "Each inspection interval may be decreased or extended (but not cumulatively) by as much as 1 year. For power units that are out of service continuously for 6 months or more, the inspection interval during which the outage occurred may be extended for a period equivalent to the outage."

Licensee's Request for Relief: The licensee requests that the ten-year inservice inspection interval, in addition to the twelve-month extension allowed by the ASME Code, be extended to the end of the current fuel cycle. This relief would apply to ASME Code Class 2 and Class 3 portions of systems and components identified in the McGuire Unit 1 inservice inspection program which have not been hydrostatically tested as required for the first interval. Approximately 10% of the outage related class C hydrostatic tests and approximately 50% of the class B tests are required to be performed.

Licensee's Basis for Requesting Relief: In a letter dated November 19, 1990, the licensee requested that the first inspection interval be extended, from December 1, 1992 until December 1, 1993 in order to complete the balance of Class 2 and 3 hydrostatic tests during a scheduled refueling outage. Duke Power revised Relief Request 90-02 in letters dated July 31, 1991 and October 2, 1991. The NRC staff evaluated the licensee's information in a SE transmitted in a letter dated January 30, 1992. The NRC staff gave approval to "add four weeks to the ten-year ISI interval (plus the twelve month extension allowed by IWA-2400 (c)) to ensure that McGuire Unit 1 can operate until the end-of-cycle 8 refueling outage currently scheduled to begin December 11, 1992."

Subsequent to NRC approving the relief request (90-02), McGuire Unit 1 experienced extended unplanned forced outages. As such, the schedule for the Unit 1 end-of-cycle 8 refueling outage was revised to March 29, 1993.

As currently scheduled, the end-of-cycle 8 refueling outage would begin after the extended ten-year inservice inspection interval expires. To comply with the ASME Code would require Unit 1 to be shutdown by December 29, 1992, in order to complete all of the remaining required hydrostatic tests. This would result in another extended unplanned forced outage in order to complete a few remaining hydrostatic tests. The licensee's position is that not performing the tests within the prescribed schedule would not endanger the quality of operations nor affect the health and safety of the public. Therefore, the burden of performing another unplanned outage, and in the process causing plant equipment to experience an unnecessary shutdown/startup cycle, in order to complete the remaining hydrostatic testing, outweighs the benefit of imposing the requirement during the current scheduled inservice inspection interval.

To avoid the need for additional relief requests to be submitted in the event there are additional extended unplanned forced outages, Duke requests that the extension be approved based on the start of the end-of-cycle 8 refueling outage instead of an explicit calendar date. If an explicit calendar date is necessary, then an extension of 120 days beyond the currently approved end date for the first interval is requested.

Alternative Testing

No alternative examinations are being proposed. The required examinations will be performed. The only change will be the time that the examinations will be performed.

2.2 Staff Evaluation

The technical issues associated with the subject Relief Request 92-02 were addressed by the NRC staff in the SE transmitted in a letter dated January 30, 1992, that approved an extension of the current inspection interval. The staff's evaluation determined that the licensee's revised request does not involve new or different technical issues. Scheduled inservice inspections are intended to be performed during outages of sufficient length to complete the ASME Code requirements.

The ASME Code is a national standard that has been incorporated by reference by regulatory and enforcement authorities. The ASME Council did not publish rules in ASME Section XI that require a plant Owner to enter a forced shutdown to complete Code requirements. However, McGuire

Unit 1 would be required to shut down by December 29, 1992, in order to complete all of the remaining hydrostatic tests unless the licensee receives approval to extend the inspection interval.

The primary reason the refueling outage has been delayed is that McGuire Unit 1 has recently experienced extended unplanned forced outages. Pursuant to the subject subparagraph IWA-2400(c), if McGuire Unit 1 had been out of service continuously for six months or more, the inspection interval during which the outage occurred may be extended for a period equivalent to the outage. Therefore, the Code rules and the regulations already permit an extension of the interval for an unplanned outage over 6 months. However, the existing approved inservice inspection plan requires a forced shutdown because McGuire Unit 1 experienced a series of outages less than 6 months.

The NRC SE dated January 30, 1992, clearly intended to permit the licensee to complete the remaining hydrostatic tests during the upcoming refueling outage. Subparagraph IWA-2400(c) encompasses the length of time identified in the licensee's submittal. Therefore, the NRC staff determined that relief may be granted, as requested by the licensee, to complete the remaining hydrostatic tests by the end of the upcoming refueling outage.

3.0 CONCLUSION

Pursuant to 10 CFR 50.55a(g)(5)(iii), the licensee determined that conformance with certain Code requirements is impractical for his facility and submitted supporting information. The staff concludes pursuant to 10 CFR 50.55a(g)(6)(i) that an extension of the inservice inspection interval until the end-of-cycle 8 refueling outage to complete the remaining hydrostatic tests is authorized by law and will not endanger life, property, or the common defense and security, and is otherwise in the public interest.

Date: December 28, 1992

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 3, 1993

Docket Nos. 50-369
and 50-370

Mr. T. C. McMeekin
Vice President, McGuire Site
Duke Power Company
12700 Hagers Ferry Road
Huntersville, North Carolina 28078-8985

Dear Mr. McMeekin:

SUBJECT: MCGUIRE NUCLEAR STATION - REQUEST FOR RELIEF FROM ASME SECTION XI INSERVICE INSPECTION HYDROSTATIC TESTING OF CLASS B PIPING WITHIN MECHANICAL PENETRATORS M372 AND M373 (TAC NO. M86405)

By letters dated May 18 and May 25, 1993, Duke Power Company submitted a relief request (Relief Request 93-02) for NRC's review and approval. This request for relief involves a hydrostatic test of the Class B piping within mechanical penetrators M372 and M373 during the first ten-year interval. These penetrations are part of the glycol-water mixture supply and return lines for the ice condenser refrigerant system.

Based on the information submitted, the staff has evaluated the relief request and determined that the licensee's proposed relief request may be granted pursuant to 10 CFR 50.55a(g)(6)(i) as discussed in the enclosed Safety Evaluation. The staff has concluded that it is impractical to perform the type of visual examination required by the ASME Code; as to do so would initiate degradation of the ice condenser system. This relief is authorized by law and will not endanger life, property, or the common defense and security and is otherwise in the public interest giving due consideration to the burden upon the licensee that could result if the ASME Code requirements were imposed upon the facility.

Sincerely,

DBMatthews

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

OF FIRST TEN-YEAR INSERVICE INSPECTION INTERVAL REQUEST FOR RELIEF

FOR

DUKE POWER COMPANY

MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

DOCKET NOS. 50-369 AND 50-370

1.0 INTRODUCTION

Technical Specification 4.0.5 for McGuire Nuclear Station Units 1 and 2 states that inservice inspection and testing of the American Society of Mechanical Engineers (ASME) Code Class 1, 2, and 3 components shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50.55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50.55a(g)(6)(i). Section 10 CFR 50.55a(a)(3) states that alternatives to the requirements of paragraph (g) may be used, when authorized by the NRC, if (i) the proposed alternatives would provide an acceptable level of quality and safety, or (ii) compliance with the specified requirements would result in hardship or unusual difficulties without a compensating increase in the level of quality and safety.

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

Pursuant to 10 CFR 50.55a(g)(5), if the licensee determines that conformance with an examination requirement of Section XI of the ASME Code is not practical for its facility, information shall be submitted to the Commission in support of that determination and a request made for relief from the ASME Code requirement. After evaluation of the determination, pursuant to 10 CFR 50.55a(g)(6)(i), the Commission may grant relief and may impose alternative requirements that are determined to be authorized by law, will not

endanger life, property, or the common defense and security, and are otherwise in the public interest, giving due consideration to the burden upon the licensee that could result if the requirements were imposed.

By letters dated May 18 and May 25, 1993, Duke Power Company (the licensee) submitted to the NRC a request for relief (Relief Request 93-02) from a pressure test requirement of Section XI of the ASME Code. The licensee determined that to perform the specific requirement would be impractical during the First Ten-Year ISI interval for McGuire Units 1 and 2. The staff has evaluated the licensee's request for relief from the Code requirement, and its evaluation and conclusions are discussed in the following sections.

2.0 REQUIREMENTS AND SUPPORTING INFORMATION

Code Requirements:

The component for which the licensee is requesting relief is the Class B piping within containment penetrations M372 and M373, Item Number C07.021.045. This piping is the supply and return glycol-water mixture lines for the ice condenser refrigerant system and is designated to be ASME Section XI Code Class 2.

The ASME Code Section XI requirement that the licensee has determined to be impractical is that contained in ASME Code Section XI, 1980 Edition through Winter 1980 Addenda, Subsection IWC, Subarticle 2500, Table IWC-2500-1, Examination Category C-H (all pressure retaining components), Item Number C7.21. The piping is required to be hydrostatically tested and visually examined.

Licensee's Basis for Requesting Relief:

The examination specified by the code is a system hydrostatic test of the Class B piping for mechanical penetrations M372 and M373. These penetrations are part of the glycol-water mixture supply and return lines in the Ice Condenser Refrigeration System (NF). The lines are 4-inch carbon steel piping that is insulated. The examination method specified by the code is a VT-2 visual exam. IWA-5242 delineates the requirements for performing a VT-2 visual examination of an insulated component. Briefly, IWA-5242 states that a VT-2 visual exam may be performed without removing insulation provided that: 1) accessible and exposed surfaces and joints of insulation are examined; 2) vertical surfaces of insulation are examined at the lowest elevation; and 3) horizontal surfaces be examined at each insulation joint. If the insulated surfaces are inaccessible for direct examinations, then only surrounding areas need be examined.

The piping in question for penetrations M372 and M373 is encapsulated with ice and frost. Due to this layer of ice and frost, a VT-2 visual examination cannot be performed in accordance with the requirements specified within the ASME Section XI Code. The inspectors, during the examination, are not able to observe the appropriate areas for any signs of possible leakage. This layer of ice and frost on the piping is believed to be due to the nature of the fluid (glycol-water mixture) within the piping.

As such, to perform the code required VT-2 visual examination, the insulation around the piping will need to be removed. The NF system would have to be shut down for an extended period of time in order to: remove the insulation, drain the glycol-water mixture, perform the examination, re-install the insulation and charge the system with the glycol-water mixture. Since these lines are in service at all times to maintain the weight of the ice baskets, the NF system cannot be shut down and the glycol-water mixture drained. Doing so would result in the degradation of the safety-related ice condenser system due to melting of the ice. Further, the recovery from such an incident would be a significant burden due to the need to re-weigh the ice baskets and the possible need to reload some.

Licensee's Proposed Alternative Examination:

The basic intent of a hydrostatic test is to verify the overall integrity of the pressure retaining components of the system being examined. The examination method specified by the ASME Code is a visual VT-2 exam. A VT-2 visual examination is performed in order to locate evidence of leakage or abnormal leakage from pressure retaining components.

The licensee proposes that in lieu of the system hydrostatic test, the Appendix J type C test of TS 4.6.1.2d.4) would be performed. As stated within Appendix J, one of the purposes of the tests is to assure that leakage through components penetrating primary containment does not exceed allowable leakage rates, thus assuring leak-tight integrity of the primary containment. For the particular penetrations in question (M372 and 373), the Appendix J type C test, performed in accordance with TS 4.6.1.2d.4), includes the class B piping of this relief request. The acceptance criteria specified by TS 4.6.1.2d.4) is that a zero indicated leakage rate is measured. Accordingly, the intent of the test and the examination method (verifying no leakage from the pressure retaining components) is accomplished.

3.0 STAFF EVALUATION AND CONCLUSION

Pursuant to 10 CFR 50.55a(g)(5)(iii), the licensee determined that conformance with certain Code requirements are impractical for its facility and submitted supporting information. The staff has reviewed the licensee's submittal and agrees with the licensee that it is impractical to perform the Code required VT-2 visual examination. The staff notes that in order to do the visual examination, it would require removal of the ice and frost in order to allow access and removal of the insulation around the pipe. This would be followed by a draining of the glycol-water mixture, performing the Code required examination, re-installing the insulation, and charging the system with the glycol-water mixture. The refrigerant system, although it is not a safety system, supports a safety system, the containment ice condenser system. Shutting down the refrigerant system will initiate degradation of the safety related ice condenser system. The licensee contends that the proposed alternative would provide an acceptable level of quality and safety since the hydrostatic test and the surveillance test are intended to determine that no leakage exists in the system, thus, indicating the integrity of the system. The staff agrees with the licensee's contention that the proposed alternative would provide an acceptable level of quality and safety.

Pursuant to 10 CFR 50.55a(g)(6)(i), the staff concludes that the requirements of the Code are impractical and relief may be granted for Relief Request 93-02. Such relief is authorized by law and will not endanger life, property, or the common defense and security, and is otherwise in the public interest. Relief has been granted giving due consideration to the burden upon the licensee that could result if the requirements were imposed on the facility. Furthermore, the proposed alternative examinations should provide an acceptable level of quality and safety, and reasonable assurance that the structural integrity of the plant's systems, components, and supports will be maintained.

Principal Contributor: Victor Nerses

Dated: June 3, 1993

bcc: with attachments
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XC GARY ~~Jim~~ B.

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INSERVICE INSPECTION REPORT

UNIT 1 McGuire 1993 REFUELING
OUTAGE 8

Location: Hwy 73, Cowans Ford, North Carolina

National Board NO. 44

Commercial Service Date: December 1, 1981

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

Revision 0

Prepared By:	Gary Underwood	*Date*	8/13/93
Reviewed By:	Larry C. Keith	*Date*	8-13-93
Approved By:	G. Barbour	*Date*	8/16/93

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201 pages

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

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Power Company, 422 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)

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

3. Plant Unit: 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date: December 1, 1981 6. National Board Number for Unit 44

7. Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Providence No.	National Board No.
	See paragraph 1.1 of th . ttached report			

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8^1/_2$ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

8. **Examination Dates** 12/8/91 to 6/12/93 9. **Inspection Interval from** 12/1/92 to 12/1/2001

10. **Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.** See attached report.

11. **Abstract of Conditions Noted.** See attached report.

12. **Abstract of Corrective Measures Recommended and Taken.** See attached report.

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

Date 8/16 19 93 Signed Duke Power Co. (Owner) By G. Barbour

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of N. C. and employed by *The HSBI&I Co. of HARTFORD, CONN. have inspected the components described in this Owners Data Report during the period 12-8-91 to 6-12-93 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 8-16 19 93

R D Klein
Inspector's Signature

Commissions NB7728, NC853 A-N-I
National Board, State, Province and No.

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

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TABLE OF CONTENTS

1.0 General Information

This report describes the Inservice Inspection of Duke Power Company's McGuire Nuclear Station Unit 1 during the 1993 Refueling Outage (also referred to as Outage 8), which is in the first outage of the First Inspection Period of the Second Ten Year Interval.

Included in this report are the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination and corrective action taken when unacceptable conditions were found. In addition, there is a section included for repairs and replacements required since December 8, 1991.

1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	CE67102	NC-178379	20766
Pressurizer	Westinghouse	1471	NC-178395	68-123
Steam Generator 1A	Westinghouse	1461	NC-178375	68-107
Steam Generator 1B	Westinghouse	1462	NC-178376	68-108
Steam Generator 1C	Westinghouse	1463	NC-178377	68-109
Steam Generator 1D	Westinghouse	1464	NC-178378	68-110
Centrifugal Charging Pump	Pacific Pumps Division	1A - 48582 1B - 48583	N/A	19 22
Containment Spray Heat Exchanger	Delta Southern	1A-35005-73-1 1B-35005-73-2	NC-147799 NC-147796	3394 3395
Excess Letdown Heat Exchanger	Westinghouse	1809	NC-187817	1554
Letdown Heat Exchanger	Joseph Oat & Sons, Inc.	2049-2A	NC-187881	552

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reciprocating Charging Pump	Westinghouse	N721031B-603	N/A	N/A
Reactor Coolant Pump	Westinghouse	1A 1-114E841G01 1B 2-114E841G01 1C 3-114E841G01 1D 4-114E841G01	N/A	N/A
Reciprocating Charging Pump Accumulator	Metal Bellows Company	74730-001	N/A	001
Reciprocating Charging Pump Suction Stabilizer	Richmond Engineering Supply Co.	N-2409.10	N/A	75219
Residual Heat Removal Heat Exchanger	Joseph Oat & Sons, Inc.	1A 2046-2A 1B 2046-2A	NC-234202 NC-234201	635 636
Safety Injection Pump	Pacific Pumps Division	1A 49355 1B 49356	N/A	80 81
Regenerative Heat Exchanger	Joseph Oat & Sons, Inc.	2047-2A	NC-187897	595 596 597
Seal Water Heat Exchanger	Atlas Industrial Manufacturing company	1766	NC 169797	1548
Seal Water Injection Filter	AMF Cuno Division	1A- 13 1B- 14	N/A	3822 3823
Main Steam Supply to Auxiliary Equipment System	Duke Power Co.	SA	N/A	4
Containment Air Release and Addition System	Duke Power Co.	VQ	N/A	12
Main Steam System	Duke Power Co.	SM	N/A	17

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Main Steam Vent to Atmosphere System	Duke Power Co.	SV	N/A	18
Reactor Coolant System	Duke Power Co.	NC	N/A	28
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	29
Refueling Water System	Duke Power Co.	FW	N/A	31
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	32
Residual Heat Removal System	Duke Power Co.	ND	N/A	35
Nuclear Service Water System	Duke Power Co.	RN	N/A	36
Chemical & Volume Control System	Duke Power Co.	NV	N/A	37
Component Cooling System	Duke Power Co.	KC	N/A	38
Main Feedwater System	Duke Power Co.	CF	N/A	39
Containment Spray System	Duke Power Co.	NS	N/A	40
Containment Ventilation Cooling Water System	Duke Power Co.	RV	N/A	41
Safety Injection System	Duke Power Co.	NI	N/A	42
Containment Purge Ventilation	Duke Power Co.	VP	N/A	6
Safety Injection Accumulator Tank 1A	Delta Southern Co	41617-72-1	NC-178396	3038

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Safety Injection Accumulator Tank 1B	Delta Southern Co	41617-72-2	NC-178397	3039
Safety Injection Accumulator Tank 1C	Delta Southern Co	41617-72-3	NC-178398	3040
Safety Injection Accumulator Tank 1D	Delta Southern Co	41617-72-4	NC-178399	3041
Unit 1	Duke Power Co.	N/A	N/A	44

1.2 Authorized Nuclear Inservice Inspector(s)

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

2.0 Summary of Inservice Inspections 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 1.

2.1 Class 1 Inspection

Section XI Category B-A Pressure Retaining Welds in Reactor Vessel

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
B01.010	**Shell Welds**		
B01.011	Circumferential	0	0
B01.012	Longitudinal	0	0
B01.020	**Head Welds**		
B01.021	Circumferential	0	0
B01.022	Meridional Welds	0	0
B01.030	**Shell to Flange Weld**	1	1
B01.040	**Head to Flange Weld**	1	1
B01.050	**Repair Welds**	None	None
B01.051	Beltline Region	N/A	N/A
TOTALS		2	2

Section XI 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	1	1
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 Generators (Primary Side)		
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)*Head*		
B02.050	**Head Welds**	None	None
B02.051	Circumferential	N/A	N/A
B02.052	Meridional	N/A	N/A
	Heat Exchangers (Primary Side)*Shell*		
B02.060	**Tubesheet to Head Welds**	N/A	N/A
B02.070	**Longitudinal Welds**	N/A	N/A
B02.080	**Tubesheet to Shell Welds**	N/A	N/A
TOTALS		1	1

Section XI 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	2 (partial) **	2 (partial) **
B03.100	Nozzle Inside Radius Section	4	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		6	6

**Partial Examinations to be completed at the end of the interval.

Section XI 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

Section XI Category B-F Pressure Retaining Dissimilar Metal Welds

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Reactor Vessel		
B05.010	NPS 4"or Larger Nozzle to Safe End Butt Welds	4	4
B05.020	Less Than NPS 4" Nozzle to Safe End Butt Welds	N/A	N/A
B05.030	Nozzle to Safe End Socket Welds	N/A	N/A
	Pressurizer		
B05.040	NPS 4"or Larger Nozzle to Safe End Butt Welds	0	0
B05.050	Less Than NPS 4" Nozzle to Safe End Butt Welds	N/A	N/A
B05.060	Nozzle to Safe End Socket Welds	N/A	N/A
	Steam Generator		
B05.070	NPS 4"or Larger Nozzle to Safe End Butt Welds	0	0
B05.080	Less Than NPS 4" Nozzle to Safe End Butt Welds	N/A	N/A
B05.090	Nozzle to Safe End Socket Welds	N/A	N/A
	Heat Exchangers		
B05.100	NPS 4"or Larger Nozzle to Safe End Butt Welds	N/A	N/A
B05.110	Less Than NPS 4" Nozzle to Safe End Butt Welds	N/A	N/A
B05.120	Nozzle to Safe End Socket Welds	N/A	N/A
	Piping		
B05.130	NPS 4"or Larger Dissimilar Metal Butt Welds	2.66 (partial)**	2.66 (partial)**
B05.140	Less Than NPS 4" Dissimilar Metal Butt Welds	N/A	N/A
B05.150	Dissimilar Metal Socket Welds	N/A	N/A
TOTALS		6.66	6.66

**Partial Examinations to be completed at the end of the interval.

Section XI 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	11	11
B06.020	Closure Studs (in place)	0	0
B06.030	Closure Studs (when removed)	11	11
B06.040	Threads in Flange	54	54
B06.050	Closure Washers, Bushings	11	11
	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 disassembled)	N/A	N/A
B06.170	Nuts , Bushings and Washers	N/A	N/A

Section XI Category B-G-1 Pressure Retaining Bolting, Greater Than 2" in Diameter *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)	1	1
B06.200	Nuts , Bushings and Washers	0	0
	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		111	111

*** Note: Items to be inspected but will not be counted in percentages for the B-G-1 category

Section XI 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	3	3

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

CONTINUED

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pumps		
B07.060	Bolts, Studs and Nuts	0	0
	Valves		
B07.070	Bolts, Studs and Nuts	2	2
	CRD Housing		
B07.080	Bolts, Studs and Nuts	0	0
TOTALS		5	5

Section XI 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	0	0
	Steam Generators		
B08.030	Integrally Welded Attachments	N/A	N/A
	Heat Exchangers		
B08.040	Integrally Welded Attachments	N/A	N/A
TOTALS		0	0

Section XI Category B-J Pressure Retaining Welds in Piping

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
B09.010	**NPS 4"or Larger**		
B09.011	Circumferential Welds	17	17
B09.012	Longitudinal Welds *	N/A	N/A
B09.020	**Less than NPS 4"**		
B09.021	Circumferential Welds	3	3
B09.022	Longitudinal Welds *	N/A	N/A
B09.030	**Branch Pipe Connection Welds**		
B09.031	NPS 4" or Larger	2	2
B09.032	Less than NPS 4"	4	4
B09.040	Socket Welds	16	16
TOTALS		42	42

* 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.

Section XI 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		N/A	N/A

Section XI Category B-L-1 Pressure Retaining Welds in Pump Casings
B-M-1 Pressure Retaining Welds in Valve Bodies
B-L-2 Pump Casings B-M-2 Valve Bodies

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pumps		
B12.010	Pump Casing Welds (B-L-1)	N/A	N/A
B12.020	Pump Casing (B-L-2)	1	1
	Valves		
B12.030	Valves, Less than NPS 4" Valve Body Welds (B-M-1)	N/A	N/A
B12.040	Valves, NPS 4" or Larger Valve Body Welds (B-M-1)	N/A	N/A
B12.050	Valve Body, Exceeding NPS 4" (B-M-2)	3	3
TOTALS		4	4

Section XI 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 (B-N-1)	0	0
	Reactor Vessel (PWR)		
B13.050	Interior Attachments Within Beltline Region (B-N-2)	N/A	N/A
B13.060	Interior Attachments Beyond Beltline Region (B-N-2)	0	0
B13.070	Core Support Structure (B-N-3)	0	0
TOTALS		0	0

Section XI 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	1	1
TOTALS		1	1

Section XI 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	12	12
B15.051	Pressure Retaining Boundary	0	0

Section XI Category B-P All Pressure Retaining Components
CONTINUED

	Pumps		
B15.060	Pressure Retaining Boundary	4	4
B15.061	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		22	22

Section XI 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	*	*
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)

F1.10 Class 1 Component Supports

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
F1.10	Reference Section 4.0 of this report	11	11
TOTALS		11	11

2.2 Class 2 Inspection

Section XI Category C-A Pressure Retaining Welds in Pressure Vessels

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
C01.010	Shell Circumferential Welds	1	1
C01.020	Head Circumferential Welds	0	0
C01.030	Tubesheet to Shell Weld	1	1
TOTALS		2	2

Section XI 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 ≤ 1/2" Nominal Thickness**		
C02.011	Nozzle to Shell (or Head) Weld	0	0
C02.020	**Nozzles Without Reinforcing Plate in Vessels >1/2" Nominal Thickness**		
C02.021	Nozzle to Shell (or Head) Weld	1	1
C02.022	Nozzle Inside Radius Section	1 *	1 *
C02.030	**Nozzles With Reinforcing Plate in Vessels >1/2" Nominal Thickness**		
C02.031	Reinforcing Plate Welds to Nozzle and Vessel	0	0
C02.032	Nozzle to Shell (or Head) Welds when Inside of Vessel is Accessible	N/A	N/A
C02.033	Nozzle to Shell (or Head) Welds when Inside of Vessel is Inaccessible	0	0
TOTALS		1	1

*(Item # C02.022) Nozzle Inside Radius Section welds are examined as required by table IWC-2500-1 Category C-B. However, for reporting purposes, the totals do not reflect the number of Nozzle Inside Radius Section welds examined during this outage. Nozzle Inside Radius Section welds are to be examined in conjunction with C02.021. examinations.

Section XI Category C-C Intergal Attachments for Vessels, Piping, Pumps, and Valves

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pressure Vessels		
C03.010	Intergally Welded Attachments	2	2
	Piping		
C03.020	Integrally Welded Attachments	0	0
	Pumps		
C03.030	Integrally Welded Attachments	1	1
	Valves		
C03.040	Integrally Welded Attachments	N/A	N/A
TOTALS		3	3

Section XI 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

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

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
C05.010	**Piping Welds ≥ 3/8" Nominal Wall Thickness for Piping > NPS 4"**		
C05.011	Circumferential Weld	16	16
C05.012	Longitudinal Weld *	7	7
C05.020	**Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ NPS 2" and ≤ NPS 4"**		
C05.021	Circumferential Weld	10	10
C05.022	Longitudinal Weld *	N/A	N/A
C05.030	**Socket Welds**	9	9
C05.040	**Pipe Branch Connections of Branch Piping ≥ NPS 2"**		
C05.041	Circumferential Weld	1	1
C05.042	Longitudinal Weld *	N/A	N/A
TOTALS		36	36

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

Section XI Category C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
C05.050	**Piping Welds ≥ 3/8" Nominal Wall Thickness for Piping > NPS 4"**		
C05.051	Circumferential Weld	9	9
C05.052	Longitudinal Weld *	1	1
C05.060	**Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ NPS 2" and ≤ NPS 4"**	N/A	N/A
C05.061	Circumferential	N/A	N/A
C05.062	Longitudinal Weld *	N/A	N/A
C05.070	**Socket Welds**	N/A	N/A
C05.080	**Pipe Branch Connections of Branch Piping ≥ NPS 2"**	N/A	N/A
C05.081	Circumferential Weld	N/A	N/A
C05.082	Longitudinal Weld *	N/A	N/A
TOTALS		9	9

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

Section XI 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	1	4
TOTALS		1	4

Section XI Category C-H All Pressure Retaining Components

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	Pressure Vessels		
C07.010	Pressure Retaining Components	0	0
C07.020	Pressure Retaining Components	0	0
	Piping		
C07.030	Pressure Retaining Components	0	0
C07.040	Pressure Retaining Components	0	0
	Pumps		
C07.050	Pressure Retaining Components	0	0
C07.060	Pressure Retaining Components	0	0
	Valves		
C07.070	Pressure Retaining Components	COVERED IN C07.030	COVERED IN C07.030
C07.080	Pressure Retaining Components	COVERED IN C07.040	COVERED IN C07.040
TOTALS		0	0

F1.20 Class 2 Component Supports
&
F1.40 Supports Other than Piping Supports

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
F1.20	Reference Section 4.0 of this report	32	32
F1.40	Reference Section 4.0 of this report	3	3
TOTALS		35	35

2.3 Augmented Inspection

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
G01.001		5	5
G02.001		*	*
G03.001		0	0
G04.001		1	1
TOTALS		6	6

* 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)

2.4 Alternate Examinations

Item Number	Description	Total Scheduled During Outage	Total Examined During Outage
	None Required this Outage	0	0
TOTALS		0	0

A detailed description of each examination listed in Sections 2.1 through 2.4 are located in Section 4 of this report. Results of each examination are located in Section 5 of this report.

3.0 Second Ten Year Interval Inspection Status

The completion status of inspections required by the 1986 ASME Code Section XI 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, in Table IWC-2500-1 for Class 2 Inspections. Augmented and alternate inspections are also included.

Class 1 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	[1]Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	28 welds	2 welds	7.14%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	5 welds	1 weld	20%	No
B-D	Full Penetration Welds of Nozzles in Vessels *Inspection Program B*	36 inspections	6 inspections	16.66%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	55	0	0	Yes
B-F	Pressure Retaining Dissimilar Metal Welds	46 welds	6.66	14.47%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	336 items	111 items	33.03%	No
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	66 connections	5 connections	7.5%	No
B-H	Integral Attachment for Vessels	12 attachments	0 attachments	0%	No
B-J	Pressure Retaining Welds in Piping	221 welds	42 welds	19%	No

Class 1 Inspections (Continued)

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	[1]Deferral Allowed
B-K-1	Integral Attachments for Piping, Pumps and Valves	NONE	N/A	N/A	No
B-L-1	Pressure Retaining Welds in Pump Casings	NONE	N/A	N/A	Yes
B-L-2	Pump Casings	1	1	100%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	NONE	N/A	N/A	N/A
B-M-2	Valve Body > 4 in. Nominal Pipe Size	9 valves	3 valves	33.33%	Yes
B-N-1	Interior of Reactor Vessel	3 items	0 items	0%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	2 items	0 items	0%	Yes
B-N-3	Removable Core Support Structures	1 item	0 items	0%	Yes
B-0	Pressure Retaining Welds in Control Rod Housings	3 welds	1 weld	33.33%	Yes
B-P	All Pressure Retaining Components				No
	System Leakage Test	132	22	16.67%	No
	System Hydrostatic Test	22	0	0%	Yes
B-Q	Steam Generator Tubing	*100% Station Technical Specifications Met*	*	*	N/A
F-A F1.10	Class 1 Component Supports (Code Case N-491)	67supports	11 supports	16.41%	No

* 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)

Class 2 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	[1]Deferral Allowed
C-A	Pressure Retaining Welds in Pressure Vessels	32 welds	2 welds	6.25%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	13 welds	1 weld	7.6%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	21 attachments	3 attachments	14.28%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	NONE	N/A	N/A	No
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	223 welds	36 welds	16.14%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	56 welds	9 welds	16.07%	No
C-G	Pressure Retaining Welds in Pumps and Valves	8 valves	1 valve	12.5%	No
C-H	All Pressure Retaining Components				No
	System or Component Inservice/Functional Test	136	0	0%	No
	System Hydrostatic Test	68	0	0%	Yes
F-A F1.20	Class 2 Component Supports (Code Case N-491)	178 supports	32 supports	17.97%	No
F-A F1.40	Supports other than Piping Supports	20 Supports	3 Supports	15%	No

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

Augmented Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	[1]Deferral Allowed
G01.001	Reactor Coolant Pump Flywheel Examinations	20 inspections	5 inspections	25%	No
G02.001	Steam Generator Preheater Section Tube Examinations	*	*		No
G03.001	Pipe Rupture Protection	8 welds	0 welds	0%	No
G04.001	Steam Generator Feedwater Modification	1 xxx	1 xxx		No

* 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)

xxx 100% of Requirements Met for Outage 8

Alternate Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	[1]Deferral Allowed
N/A	N/A	N/A	N/A	N/A	N/A

[1] *Deferral of inspection to the end 0f the interval as allowed by ASME Section XI Tables IWB-2500-1 and IWC-2500-1.*

4.0 Final Inservice Inspection Plan For Outage 8

The final ISI Plan presented in this section lists all examinations credited for Outage 8 at McGuire Unit 1. This includes ASME Section XI Class 1 and 2, augmented and any alternate examinations required by the plant technical specifications, NRC Bulletins and Problem Investigation Process Forms.

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, Class 2), Augmented and Alternate 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: NISIRUNB-QAISI02
FILE: C007133
PLANT: MCGUIRE UNIT 1
KEY: ITEM NUMBER B01

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B01.010.000	REACTOR VESSEL	SHELL WELDS********* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.011.000	REACTOR VESSEL	CIRCUMFERENTIAL SHELL WELDS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.012.000	REACTOR VESSEL	LONGITUDINAL SHELL WELDS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.020.000	REACTOR VESSEL HEAD	WELDS************** *******************	***** ***** *****	***	******* *******	***** __________	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.021.000	REACTOR VESSEL	CIRCUMFERENTIAL HEAD WELDS**************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.022.000	REACTOR VESSEL	MERIDIONAL HEAD WELDS**************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.030.000	REACTOR VESSEL	SHELL TO FLANGE WELD *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B01.030.001	1RPV 7-442	MCM 1201.01-146 MCM 1201.01-223	_____ _____ _____	UT	NDE-651 _______	CS __________	. 10.700	50304	NOZZLE BELT TO FLANGE PC. 454-01 TO PC. 442-06 UT FROM FLANGE SURFACE 57.41% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B01.040.000	REACTOR VESSEL HEAD	TO FLANGE WELD****** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B01.040.001	1RPV 6-446A	MCM 1201.01-204 MCM 1201.01-225		UT	NDE-661	CS	07.300	50376	CLOSURE HEAD TO FLANGE PC. 446-02 TO PC. 446-03 94.41% EXAMINED
B01.040.001A	1RPV 6-446A	MCM 1201.01-204 MCM 1201.01-225		MT	NDE-26	CS	07.300		CLOSURE HEAD TO FLANGE PC. 446-02 TO PC. 446-03
B01.050.000	REACTOR VESSEL	REPAIR WELDS******** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B01.051.000	REACTOR VESSEL	BELTLINE REGION REPAIR WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B02.010.000	PRESSURIZER SHELL	TO HEAD WELDS******* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.011.000	PRESSURIZER SHELL TO	HEAD CIRCUMFERENTIAL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.011.001	1PZR-1	MCM 1201.01-170 MCM 1201.01-171	_____ _____ _____	UT	NDE-621 NDE-641	CS __________	91.50 03.750	50337	PRESSURIZER LOWER HEAD TO SHELL CIRCUMFERENTIAL WELD INSP. PER 1980 CODE(IWB-2420B) B&W ISI-134 (OT.8) GR.90% EX.
B02.012.000	PRESSURIZER	LONGITUDINAL SHELL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.020.000	PRESSURIZER HEAD	WELDS*************** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.021.000	PRESSURIZER	CIRCUMFERENTIAL HEAD WELDS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.022.000	PRESSURIZER	MERIDIONAL HEAD WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.030.000	STEAM GENERATOR	HEAD WELDS (PRIMARY SIDE)******	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************

PROGRAM: NISIRUNB-QAISI02
FILE: C007133
PLANT: MCGUIRE UNIT 1
KEY: ITEM NUMBER B02

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECT. : LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B02.031.000	STEAM GENERATOR	HEAD CIRCUMFERENTIAL WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.032.000	STEAM GENERATOR	HEAD MERIDIONAL WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.040.000	STEAM GENERATOR	TUBESHEET TO HEAD WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.050.000	HEAT EXCHANGER HEAD	WELDS (PRIMARY SIDE) ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.051.000	HEAT EXCHANGER HEAD	CIRCUMFERENTIAL WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.052.000	HEAT EXCHANGER HEAD	MERIDONAL WELDS (PRIMARY SIDE)******	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.060.000	HEAT EXCHANGER	TUBESHEET TO HEAD WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B02.070.000	HEAT EXCHANGER SHELL	LONGITUDINAL WELDS (PRIMARY SIDE)******	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B02.080.000	HEAT EXCHANGER	TUBESHEET TO SHELL WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

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***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	*****	*************************** *************************** *************************** ***************************
B03.090.005A	1RPV5-445E	MCM 1201.01-148 MCM 1201.01-223		UT	ISI-138	CS	52.90 10.900	50304	OUTLET NOZZLE E TO SHELL 22 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.090.006A	1RPV5-445F	MCM 1201.01-148 MCM 1201.01-223		UT	ISI-138	CS	52.90 10.900	50304	OUTLET NOZZLE F TO SHELL 158 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.090.007A	1RPV5-445G	MCM 1201.01-148 MCM 1201.01-223		UT	ISI-138	CS	52.90 10.900	50304	OUTLET NOZZLE G TO SHELL 202 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.090.008A	1RPV5-445H	MCM 1201.01-148 MCM 1201.01-223		UT	ISI-138	CS	52.90 10.900	50304	OUTLET NOZZLE H TO SHELL 338 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.100.000	REACTOR VESSEL	NOZZLE INSIDE RADIUS SECTION******	***** ***** *****	***	******* *******	***** **********	__.__ __.__		*************************** *************************** *************************** ***************************
B03.100.005	1RPV5-445ER	MCM 1201.01-148 MCM 1201.01-223		UT	ISI-138	CS	52.90 10.900	50304	OUTLET NOZZLE E TO SHELL 22 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.100.006	1RPV5-445FR	MCM 1201.01-148 MCM 1201.01-223		UT	ISI-138	CS	52.90 10.900	50304	OUTLET NOZZLE F TO SHELL 158 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B03.100.007	1RPV5-445GR	MCM 1201.01-148 MCM 1201.01-223	_____ _____ _____	UT	ISI-138 _______	CS __________	52.90 10.900	50304	OUTLET NOZZLE G TO SHELL 202 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.100.008	1RPV5-445HR	MCM 1201.01-148 MCM 1201.01-223	_____ _____ _____	UT	ISI-138 _______	CS __________	52.90 10.900	50304	OUTLET NOZZLE H TO SHELL 338 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF MNS-004
B03.110.000	PRESSURIZER NOZZLE	TO VESSEL WELDS***** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B03.120.000	PRESSURIZER NOZZLE	INSIDE RADIUS SECTION*************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B03.130.000	STEAM GENERATOR	NOZZLE TO VESSEL WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B03.140.000	STEAM GENERATOR	NOZZLE INSIDE RADIUS SECTION (PRIM. SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B03.150.000	HEAT EXCHANGER	NOZZLE TO VESSEL WELDS (PRIMARY SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B03.160.000	HEAT EXCHANGER	NOZZLE INSIDE RADIUS SECTION (PRIM. SIDE)	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INS/ REF.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B04.010.000	PARTIAL PENETRATION	WELDS IN VESSELS**** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B04.011.000	VESSEL NOZZLES******	******************* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B04.012.000	CONTROL ROD DRIVE	NOZZLES************ *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	INSPECT AND DOCUMENT 100% OF NOZZLE WELDS WITH CL.1 HYDRO **************************** ****************************
B04.013.000	INSTRUMENTATION	NOZZLES************ *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	INSPECT AND DOCUMENT 100% OF NOZZLE WELDS WITH CL.1 HYDRO **************************** ****************************
B04.020.000	PRESSURIZER HEATER	PENETRATION WELDS *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	INSPECT AND DOCUMENT 100% OF PENT. WELDS WITH CL.1 HYDRO **************************** ****************************

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**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	4 INCH NPS OR LARGER********** **************************** **************************** ****************************
B05.010.005	1RPV 3-445F-SE	MCM 1201.01-148 MCM 1201.01-206		UT	ISI-138	CS/SS	29.00 02.312	40397	RV O/NZ TO SE,PC 445-6/-7,158D UT FM NOZ SIDE,DO W/B5.130.005 REF RFR MNS-4,B&W 1991 RPV REP CAL. BK. 50214 USED
B05.010.005A	1RPV 3-445F-SE	MCM 1201.01-148 MCM 1201.01-206		UT	ISI-138	CS/SS	29.00 02.312	40397	RV O/NZ TO SE,UT FROM SE SIDE DO W/B05.130.005A REF RFR MNS-4,B&W1991 RPV REP CAL BLOK USED 50214
B05.010.005B	1RPV 3-445F-SE	MCM 1201.01-148 MCM 1201.01-206		PT	NDE-36	CS/SS	29.00 02.312	_____	RV OUTLET NOZZLE TO SAFE END PC. 445-06 TO PC. 445-07 158 DEG. TO BE DONE WITH B05.130.005B
B05.010.006	1RPV 3-445E-SE	MCM 1201.01-148 MCM 1201.01-206		UT	ISI-138	CS/SS	29.00 02.312	40397	RV O/NZ TO SE,PC 445-6/-7,22D UT FM NOZ SIDE,DO W/B5.130.001 REF RFR MNS-4,B&W 1991 RPV REP CAL.BK. 50214 USED
B05.010.006A	1RPV 3-445E-SE	MCM 1201.01-148 MCM 1201.01-206		UT	ISI-138	CS/SS	29.00 02.312	40397	RV OUT/NZ TO SE, UT FM SE SIDE DO W/B05.130.001A REF. RFR MNS -4, B&W 1991 RPV REPORT CAL. BK.50214 USED
B05.010.006B	1RPV 3-445E-SE	MCM 1201.01-148 MCM 1201.01-206		PT	NDE-36	CS/SS	29.00 02.312	_____	RV OUTLET NOZZLE TO SAFE END PC. 445-06 TO PC. 445-07 22 DEG. TO BE DONE WITH B05.130.001B
B05.010.007	1RPV 3-445H-SE	MCM 1201.01-148 MCM 1201.01-206		UT	ISI-138	CS/SS	29.00 02.312	40397	RV O/NZ TO SE,PC 445-6/-7,338D UT FM NOZ SIDE,DO W/B5.130.013 REF RFR MNS-4,B&W 1991 RPV REP CAL. BK. 50214 USED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.010.007A	1RPV 3-445H-SE	MCM 1201.01-148 MCM 1201.01-206	____ ____ ____	UT	ISI-138 ____	CS/SS ____	29.00 02.312	40397	RV O/NZ TO SE, UT FM SE SIDE DO W/B05.130.013A, REF RFR MNS -4, B&W 1991 RPV REPORT CAL. BK.50214 USED
B05.010.007B	1RPV 3-445H-SE	MCM 1201.01-148 MCM 1201.01-206	____ ____ ____	PT	NDE-36 ____	CS/SS ____	29.00 02.312	____	RV OUTLET NOZZLE TO SAFE END PC. 445-06 TO PC. 445-07 338 DEG. TO BE DONE WITH B05.130.013B
B05.010.008	1RPV 3-445G-SE	MCM 1201.01-148 MCM 1201.01-206	____ ____ ____	UT	ISI-138 ____	CS/SS ____	29.00 02.312	40397	RV O/NZ TO SE,PC 445-6/-7,202D UT FM NOZ SIDE.DO W/B5.130.009 REF RFR MNS-4,B&W 1991 RPV REP CAL. BK. 50214 USED
B05.010.008A	1RPV 3-445G-SE	MCM 1201.01-148 MCM 1201.01-206	____ ____ ____	UT	ISI-138 ____	CS/SS ____	29.00 02.312	40397	RV OUT/''Z TO SE, UT FM SE SIDE DO W/B05.130.009A REF RFR MNS -4, B&W 1991 RPV REPORT CAL. BK. 50214 USED
B05.010.008B	1RPV 3-445G-SE	MCM 1201.01-148 MCM 1201.01-206	____ ____ ____	PT	NDE-36 ____	CS/SS ____	29.00 02.312	____	RV OUTLET NOZZLE TO SAFE END PC. 445-06 TO PC. 445-07 202 DEG. TO BE DONE WITH B05.130.009B
B05.020.000	REACTOR VESSEL	NOZZLE TO SAFE END BUTT WELDS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	____	LESS THAN 4 INCH NPS********** ***************************** ***************************** *****************************
B05.030.000	REACTOR VESSEL	NOZZLE TO SAFE END SOCKET WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	____	***************************** ***************************** ***************************** *****************************
B05.040.000	PRESSURIZER NOZZLE	TO SAFE END BUTT WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	____	4 INCH NPS OR LARGER********** ***************************** ***************************** *****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.050.000	PRESSURIZER NOZZLE	TO SAFE END BUTT WELDS****************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B05.060.000	PRESSURIZER NOZZLE	TO SAFE END SOCKET WELDS****************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B05.070.000	STEAM GENERATOR	NOZZLE TO SAFE END BUTT WELDS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	4 INCH NPS OR LARGER********** **************************** **************************** ****************************
B05.080.000	STEAM GENERATOR	NOZZLE TO SAFE END BUTT WELDS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B05.090.000	SREAM GENERATOR	NOZZLE TO SAFE END SOCKET WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B05.100.000	HEAT EXCHANGER	NOZZLE TO SAFE END BUTT WELDS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	4 INCH NPS OR LARGER********** **************************** **************************** ****************************
B05.110.000	HEAT EXCHANGER	NOZZLE TO SAFE END BUTT WELDS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B05.120.000	HEAT EXCHANGER	NOZZLE TO SAFE END SOCKET WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.130.000	PIPING DISSIMILAR	METAL BUTT WELDS**** *******************	***** ***** *****	***	******* *******	***** **********			4 INCH NPS OR LARGER********** ***************************** ***************************** *****************************
B05.130.001	1NC1F-1-1	MCM 1201.01-119/1 MC 1676-4		UT	ISI-138	CS/SS	29.00 02.300	40397	UT FROM SAFE END SIDE TO BE DONE WITH B05.010.006 REF. RFR MNS-004, CAL. BK. 50214 USED REF. B&W 1991 RPV REPORT
B05.130.001B	1NC1F-1-1	MCM 1201.01-119/1 MCM 1676-4		PT	NDE-36	CS/SS	29.00 02.300		TO BE DONE WITH B05.010.006B
B05.130.005	1NC1F-2-1	MCM 1201.01-119/4 MC 1676-4		UT	ISI-138	CS/SS	29.00 02.300	40397	UT FROM SAFE END SIDE TO BE DONE WITH B05.010.005 REF. RFR MNS-004, CAL. BK. 550214 USED REF. B&W 1991 RPV REPORT
B05.130.005B	1NC1F-2-1	MCM 1201.01-119/4 MC 1676-4		PT	NDE-36	CS/SS	29.00 02.300		TO BE DONE WITH B05.010.005B
B05.130.009	1NC1F-3-1	MCM 1201.01-119/7 MC 1676-4		UT	ISI-138	CS/SS	29.00 02.300	40397	UT FROM SAFE END SIDE TO BE DONE WITH B05.010.008 REF. RFR MNS-004, CAL. BK. 50214 USED, REF. B&W 1991 RPV REPORT
B05.130.009B	1NC1F-3-1	MCM 1201.01-119/7 MC 1676-4		PT	NDE-36	CS/SS	29.00 02.300		TO BE DONE WITH B05.010.008B
B05.130.013	1NC1F-4-1	MCM 1201.01-119/10 MC 1676-4		UT	ISI-138	CS/SS	29.00 02.300	40397	UT FROM SAFE END SIDETO BE DONE WITH B05.010.007 REF. RFR MNS-004, CAL. BK. 50214 USED REF. B&W 1991 RPV REPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.130.013B	1NC1F-4-1	MCM 1201.01-119/10 MC 1676-4	_____ _____ _____	PT	NDE-36 _______	CS/SS __________	29.00 02.300	_____	TO BE DONE WITH B05.010.007B
B05.140.000	PIPING DISSIMILAR	METAL BUTT WELDS**** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B05.150.000	PIPING DISSIMILAR	METAL SOCKET WELDS** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

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*** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	************************** ************************** ************************** **************************
B06.010.001	1RPV-449-02-01	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.002	1RPV-449-02-02	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.003	1RPV-449-02-03	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.004	1RPV-449-02-04	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.005	1RPV-449-02-05	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.006	1RPV-449-02-06	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.007	1RPV-449-02-07	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.010.008	1RPV-449-02-08	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.009	1RPV-449-02-09	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.010	1RPV-449-02-10	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.010.011	1RPV-449-02-11	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	10.54 01.770	-----	CLOSURE HEAD NUT
B06.020.000	REACTOR VESSEL	CLOSURE STUDS (IN PLACE)***********	***** ***** *****	***	******* *******	*****	__.__ __.___		**************************** **************************** **************************** ****************************
B06.030.000	REACTOR VESSEL	CLOSURE STUDS (WHEN REMOVED)******	***** ***** *****	***	******* *******	***** **********	__.__ __.___		**************************** **************************** **************************** ****************************
B06.030.001	1RPV-449-01-01	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.001A	1RPV-449-01-01	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.030.002	1RPV-449-01-02	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.002A	1RPV-449-01-02	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.003	1RPV-449-01-03	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.003A	1RPV-449-01-03	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.004	1RPV-449-01-04	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.004A	1RPV-449-01-04	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.005	1RPV-449-01-05	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.005A	1RPV-449-01-05	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD

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

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.030.006	1RPV-449-01-06	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.006A	1RPV-449-01-06	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.007	1RPV-449-01-07	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.007A	1RPV-449-01-07	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.008	1RPV-449-01-08	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.008A	1RPV-449-01-08	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.009	1RPV-449-01-09	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.009A	1RPV-449-01-09	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.030.010	1RPV-449-01-10	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.010A	1RPV-449-01-10	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.030.011	1RPV-449-01-11	MCM 1201.01-204 MCM 1201.01-206		UT	NDE-941	CS	07.00 57.688	50501	CLOSURE STUD 100% EXAMINED
B06.030.011A	1RPV-449-01-11	MCM 1201.01-204 MCM 1201.01-206		MT	NDE-26	CS	07.00 57.688	-----	CLOSURE STUD
B06.040.000	REACTOR VESSEL	THREADS IN FLANGE*** ******************	***** ***** *****	***	******* *******	***** **********			**************************** **************************** **************************** ****************************
B06.040.001	1RPV-THREAD-01	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.002	1RPV-THREAD-02	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.003	1RPV-THREAD-03	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.004	1RPV-THREAD-04	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.005	1RPV-THREAD-05	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.006	1RPV-THREAD-06	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.007	1RPV-THREAD-07	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.008	1RPV-THREAD-08	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.009	1RPV-THREAD-09	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.010	1RPV-THREAD-10	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.011	1RPV-THREAD-11	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.012	1RPV-THREAD-12	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.013	1RPV-THREAD-13	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.014	1RPV-THREAD-14	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.015	1RPV-THREAD-15	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.016	1RPV-THREAD-16	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.017	1RPV-THREAD-17	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.018	1RPV-THREAD-18	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.019	1RPV-THREAD-19	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.020	1RPV-THREAD-20	MCM 1201.01-147 MCM 1201.01 206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.021	1RPV-THREAD-21	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.022	1RPV-THREAD-22	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.023	1RPV-THREAD-23	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.024	1RPV-THREAD-24	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.025	1RPV-THREAD-25	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.026	1RPV-THREAD-26	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.027	1RPV-THREAD-27	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.028	1RPV-THREAD-28	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.029	1RPV-THREAD-29	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.030	1RPV-THREAD-30	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.031	1RPV-THREAD-31	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.032	1RPV-THREAD-32	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.033	1RPV-THREAD-33	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.034	1RPV-THREAD-34	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.035	1RPV-THREAD-35	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.036	1RPV-THREAD-36	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.037	1RPV-THREAD-37	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.038	1RPV-THREAD-38	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.039	1RPV-THREAD-39	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.040	1RPV-THREAD-40	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.041	1RPV-THREAD-41	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.042	1RPV-THREAD-42	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.043	1RPV-THREAD-43	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.044	1RPV-THREAD-44	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.045	1RPV-THREAD-45	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.046	1RPV-THREAD-46	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.047	1RPV-THREAD-47	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.048	1RPV-THREAD-48	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.049	1RPV-THREAD-49	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.050	1RPV-THREAD-50	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.051	1RPV-THREAD-51	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.040.052	1RPV-THREAD-52	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.053	1RPV-THREAD-53	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	:7.00 12.000	40387	THREADS IN RPV FLANGE GREATER THAN 90% EXAMINED
B06.040.054	1RPV-THREAD-54	MCM 1201.01-147 MCM 1201.01-206		UT	NDE-641	CS	07.00 12.000	40387	THREADS IN RPV F.ANGE GREATER THAN 90% EXAMINED
B06.050.000	REACTOR VESSEL	CLOSURE WASHERS AND BUSHINGS************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
B06.050.001	1RPV-449-03-01	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.002	1RPV-449-03-02	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.003	1RPV-449-03-03	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.004	1RPV-449-03-04	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.050.005	1RPV-449-03-05	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.006	1RPV-449-03-06	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.007	1RPV-449-03-07	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.008	1RPV-449-03-08	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.009	1RPV-449-03-09	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.010	1RPV-449-03-10	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.050.011	1RPV-449-03-11	MCM 1201.01-204 MCM 1201.01-206		VT1	QAL-13	CS	10.56 01.719	-----	CLOSURE WASHER
B06.060.000	PRESSURIZER BOLTS	AND STUDS*********** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.070.000	PRESSURIZER FLANGE	SURFACE, WHEN CONN- ECTIONS DISASSEMBLED	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B06.080.000	PRESSURIZER NUTS,	BUSHINGS, AND WASHERS*************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B06.090.000	STEAM GENERATOR	BOLTS AND STUDS******* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B06.100.000	STEAM GENERATOR	FLANGE SURFACE****** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN CONNECTION DISASSEMBLED** **************************** **************************** ****************************
B06.110.000	STEAM GENERATOR	NUTS, BUSHINGS, AND WASHERS*************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B06.120.000	HEAT EXCHANGER BOLTS	AND STUDS*********** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B06.130.000	HEAT EXCHANGER	FLANGE SURFACE****** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN CONNECTION DISASSEMBLED** **************************** **************************** ****************************
B06.140.000	HEAT EXCHANGER NUTS,	BUSHINGS AND WASHERS *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.150.000	PIPING BOLTS AND	STUDS************** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
B06.160.000	PIPING FLANGE	SURFACE************ *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN CONNECTION DISASSEMBLED** *************************** *************************** ***************************
B06.170.000	PIPING NUTS,	BUSHINGS, AND WASHERS************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
B06.180.000	PUMPS BOLTS AND	STUDS************** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
B06.180.001	1RCP-1A-F	MCM 1201.01-120		UT	NDE-941	CS	04.50 29.500	50502	24 RCP MAIN FLANGE BOLTS GREATER THAN 90% EXAMINED
B06.190.000	PUMP FLANGE SURFACE*	******************* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN CONNECTION DISASSEMBLED** *************************** *************************** ***************************
B06.190.004	1RCP-1D-FLANGE	MCM 1201.01-7 MCM 1201.01-193		VT1	QAL-13	SS	77.00 10.370	-----	RCP1D MAIN FLANGE INSPECT ONLY IF DISASSEMBLED
B06.200.000	PUMP NUTS, BUSHINGS,	AND WASHERS********* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B06.210.000	VALVE BOLTS AND	STUDS*************** *******************	***** ***** *****	***	******* *******	***** *"********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B06.220.000	VALVE FLANGE SURFACE	******************* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN DISASSEMBLED*********** **************************** **************************** ****************************
B06.230.000	VALVE NUTS,	BUSHINGS, AND WASHERS*************	***** ****" *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B07.010.000	REACTOR VESSEL	BOLTS, STUDS, AND NUTS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B07.020.000	PRESSURIZER BOLTS,	STUDS, AND NUTS***** ******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B07.030.000	STEAM GENERATOR	BOLTS, STUDS, AND NUTS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B07.040.000	HEAT EXCHANGER	BOLTS, STUDS, AND NUTS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B07.050.000	PIPING BOLTS,STUDS,	AND NUTS*********** ******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** ****-*********************** ****************************
B07.050.001	1NC-5-FL1	MCFI 1NC-5 MC 1553-3.0		VT1	QAL-13	SS	10.000		FLANGE BOLTING (12) DIAMETER 1.375
B07.050.002	1NC-5-FL2	MCFI 1NC-5 MC 1553-3.0		VT1	QAL-13	SS	10.000		FLANGE BOLTING (12) DIAMETER 1.375
B07.050.003	1NC-5-FL3	MCFI 1NC-5 MC 1553-3.0		VT1	QAL-13	SS	10.000		FLANGE BOLTING (12) DIAMETER 1.375

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B07.060.000	PUMP BOLTS, STUDS,	AND NUTS************ *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B07.070.000	VALVE BOLTS, STUDS	AND NUTS************ *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
B07.070.003	1NC-3	MCM 1205.09-0001 MC-1553-2.0	_____ _____ _____	VT1	QAL-13 _______	SS __________	01.00 __.__	_____	6" VALVE, MCFI-1NC5
B07.070.065	1NI-71	MCM 1205.36-0010 MC 1562-2.0	_____ _____ _____	VT1	QAL-13 _______	SS __________	__.__ __.__	_____	10" VALVE, MCFI-1NI62
B07.080.000	CRD HOUSING BOLTS,	STUDS, AND NUTS***** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B08.010.000	REACTOR VESSEL	INTEGRALLY WELDED ATTACHMENTS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************
B08.020.000	PRESSURIZER	INTEGRALLY WELDED ATTACHMENTS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************
B08.030.000	STEAM GENERATOR	INTEGRALLY WELDED ATTACHMENTS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************
B08.040.000	HEAT EXCHANGER	INTEGRALLY WELDED ATTACHMENTS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************

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

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 8

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 WELDS	4 INCH NPS OR LARGER *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		************************** ************************** ************************** **************************
B09.011.000	CLASS 1	CIRCUMFERENTIAL PIPING WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__		4 INCH NPS OR LARGER********** ************************** ************************** **************************
B09.011.001	1NC-3091-W1	MCM 1201.01-119/1 MC 1676-4		UT	NDE-611	SS	29.00 02.300	50214	REACTOR COOLANT LOOP-1 PC.P1 TO PC.A 98.7% EXAMINED
B09.011.001A	1NC-3091-W1	MCM 1201.01-119/1 MC 1676-4		PT	NDE-36	SS	29.00 02.300	-----	REACTOR COOLANT LOOP-1 PC.P1 TO PC.A
B09.011.002	1NC1F-1-4	MCM-1201.01-119/2 MC-1676-4		UT	NDE-611	SS	31.00 02.500	50214	REACTOR COOLANT LOOP-1 ELBOW TO PC.P1 100% EXAMINED
B09.011.002A	1NC1F-1-4	MCM-1201.01-119/2 MC-1676-4		PT	NDE-36	SS	31.00 02.500		REACTOR COOLANT LOOP-1 ELBOW TO PC.P1
B09.011.033	1NC1F-1850	MCFI-1NC-5 MC-1553-2.0		UT	NDE-601	SS	06.00 00.719	50211	TERMINAL END PRESSURIZER SAFETY LINE LIMITED 81.94% EXAMINED
B09.011.033A	1NC1F-1850	MCFI-1NC-5 MC-1553-2.0		PT	NDE-36	SS	06.00 00.719		TERMINAL END PRESSURIZER SAFETY LINE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.036	1NC1F-539	MCFI-1NC-5 MC-1553-2.0		UT	NDE-601	SS	06.00 00.719	50211	STRESS WELD SELECTION CRITERIA 4.2.1 LIMITED 78% EXAMINED
B09.011.036A	1NC1F-539	MCFI-1NC-5 MC1553-2.0		PT	NDE-36	SS	06.00 00.719		STRESS WELD SELECTION CRITERIA 4.2.1
B09.011.040	1NC1F-542	MCFI-1NC-5 MC-1553-2.0		UT	NDE601	SS	06.00 00.719	50211	TERMINAL END PRESSURIZER SAFETY LINE LIMITED 77.5% EXAMINED
B09.011.040A	1NC1F-542	MCFI-1NC-5 MC-1553-2.0		PT	NDE-36	SS	06.00 00.719		TERMINAL END PRESSURIZER SAFETY LINE
B09.011.042	1NC1F-541	MCFI-1NC-5 MC-1553-2.0		UT	NDE-601	SS	06.00 00.719	50211	STRESS WELD SELECTION CRITERIA 4.2.1 100% EXAMINED
B09.011.042A	1NC1F-541	MCFI-1NC-5 MC-1553-2.0		PT	NDE-36	SS	06.00 00.719		STRESS WELD SELECTION CRITERIA 4.2.1
B09.011.047	1NC1F-544	MCFI-1NC-5 MC-1553-2.0		UT	NDE-601	SS	06.00 00.719	50211	TERMINAL END PRESSURIZER SAFETY LINE 90% EXAMINED
B09.011.047A	1NC1F-544	MCFI-1NC-5 MC-1553-2.0		PT	NDE-36	SS	06.00 00.719		TERMINAL END PRESSURIZER SAFETY LINE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.066	1NC1F-1746	MCFI-1NC-49 MC-1553-2.0		UT	NDE-601	SS	04.00 00.531	50275	TERMINAL END/STRESS WELD PRESSURIZER SPRAY LINE SELECTION CRITERIA 4.2.1 LIMITED 53% EXAMINED
B09.011.066A	1NC1F-1746	MCFI-1NC-49 MC-1553-2.0		PT	NDE-36	SS	04.00 00.531		TERMINAL END/STRESS WELD PRESSURIZER SPRAY LINE SELECTION CRITERIA 4.2.1
B09.011.067	1NC1F-1739	MCFI-1NC-49 MC-1553-2.0		UT	NDE-601	SS	06.00 00.719	50211	91.54% EXAMINED
B09.011.067A	1NC1F-1739	MCFI-1NC-49 MC-1553-2.0		PT	NDE-36	SS	06.00 00.719		
B09.011.068	1NC1F-3612-PZR	MCFI-1NC-53 MC-1553-2.0		UT	NDE-601	SS	14.00 01.406	50207	TERMINAL END PRESSURIZER TO SURGE LINE 100% EXAMINED
B09.011.068A	1NC1F-3612-PZR	MCFI-1NC-53 MC-1553-2.0		PT	NDE-36	SS	14.00 01.406		TERMINAL END PRESSURIZER TO SURGE LINE
B09.011.100	1ND1F-236	MCFI 1ND-38 MC 1561-1.0		UT	NDE-601 NDE-611	SS	14.00 01.250	50213	100% EXAMINED
B09.011.100A	1ND1F-236	MCFI 1ND-38 MC 1561-1.0		PT	NDE-36	SS	14.00 01.250		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.101	1ND1F-237	MCFI 1ND-38 MC 1561-1.0		UT	NDE-611	SS	14.00 01.250	50213	100% EXAMINED
B09.011.101A	1ND1F-237	MCFI 1ND-38 MC 1561-1.0		PT	NDE-36	SS	14.00 01.250		
B09.011.102	1ND1F-238	MCFI 1ND-38 MC 1561-1.0		UT	NDE-611	SS	14.00 01.250	50213	100% EXAMINED
B09.011.102A	1ND1F-238	MCFI 1ND-38 MC 1561-1.0		PT	NDE-36	SS	14.00 01.250		
B09.011.103	1ND1F-241	MCFI 1ND-38 MC 1561-1.0		UT	NDE-601 NDE-611	SS	14.00 01.250	50213	100% EXAMINED
B09.011.103A	1ND1F-241	MCFI 1ND-38 MC 1561-1.0		PT	NDE-36	SS	14.00 01.250		
B09.011.213	1NI1F-286	MCFI-1NI-78 MC-1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
B09.011.213A	1NI1F-286	MCFI-1NI-78 MC-1562-3.1		PT	NDE-36	SS	06.00 00.719		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.011.215	1NI-200-2	MCFI-1NI-78 MC-1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
B09.011.215A	1NI-200-2	MCFI-1NI-78 MC-1562-3.1		PT	NDE-36	SS	06.00 00.719		
B09.011.224	1NI1F-262	MCFI-1NI-85 MC-1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
B09.011.224A	1NI1F-262	MCFI-1NI-85 MC-1562-3.1		PT	NDE-36	SS	06.00 00.719		
B09.012.000	CLASS 1	LONGITUDINAL PIPING WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		4 INCH NPS OR LARGER********** **************************** **************************** ****************************
B09.020.000	CLASS 1 PIPING	WELDS LESS THAN 4 INCH NPS************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
B09.021.000	CLASS 1	CIRCUMFERENTIAL PIPING WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__		LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B09.021.006	1NC1F-1273	MCFI-1NC-28 MC-1553-1.0		PT	NDE-36	SS	03.00 00.438	-----	STRESS WELD SELECTION CRITERIA 4.2.1

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.021.007	1NC1F-2593	MCFI-1NC-33 MC-1553-1.0		PT	NDE-36	SS	03.00 00.438		
B09.021.100	1NIP-403-2	MCFI-1NI-35 MC-1562-3.0		PT	NDE-36	SS	03.00 00.438	-----	
B09.022.000	CLASS 1	LONGITUDINAL PIPING WELDS****************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B09.030.000	CLASS 1	BRANCH CONNECTION PIPING WELDS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
B09.031.000	CLASS 1	BRANCH CONNECTION PIPING WELDS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__		4 INCH NPS OR LARGER********** **************************** **************************** ****************************
B09.031.001	1NC47-WN4A	MCFI-1NC-47 MCM 1201.01-119/9		UT	NDE-611	SS	10.00 02.200	50214	SAFETY INJECTION LOOP 3 PC.B TO PC.1 UT FROM MAIN LOOP SIDE ONLY LIMITED 49.5% EXAMINED
B09.031.001A	1NC47-WN4A	MCFI-1NC-47 MCM 1201.01-119/9		PT	NDE-36	SS	10.00 01.000		
B09.031.002	1NC47-WN4B	MCFI-1NC-47 MCM 1201.01-119/12		UT	NDE-611	SS	10.00 02.200	50214	SAFETY INJECTION LOOP 4 PC.B TO PC.1 UT FROM MAIN LOOP SIDE ONLY LIMITED 48.2% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.031.002A	1NC47-WN4B	MCFI-1NC-47 MCM 1201.01-119/12		PT	NDE-36	SS	10.00 01.000		
B09.032.000	CLASS 1	BRANCH CONNECTION PIPING WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__		LESS THAN 4 INCH NPS********** **************************** **************************** ****************************
B09.032.001	1NC3-WN8	MCFI-1NC-3 MCM 1201.01-119/2		PT	NDE-36	SS	02.00 00.344	-----	REACTOR COOLANT DRAIN LOOP 1 PC.D TO PC.2
B09.032.002	1NC3-WN2	MCFI-1NC-3 MCM 1201.01-119/3		PT	NDE-36	SS	02.00 00.344	-----	RTD BYPASS LOOP 1 PC.G TO PC.1
B09.032.003	1NC19-WN2	MCFI-1NC-19 MCM 1201.01-119/6		PT	NDE-36	SS	02.00 00.344	-----	RTD BYPASS LOOP 2 PC.F TO PC.1
B09.032.004	1NC22-WN8	MCFI-1NC-22 MCM 1201.01-119/5		PT	NDE-36	SS	02.00 00.344	-----	REACTOR COOLANT DRAIN LOOP 2 PC.D TO PC.2
B09.040 000	CLASS 1	SOCKET WELDS******** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
B09.040.000	**SOCKET WELDS	******************* *******************		***	*******	*****	__.__ __.__	*****	**************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.040.003	1NC1F-934	MCFI-1NC-19 MC-1553-3.0		PT	NDE-36	SS	02.00 00.344		
B09.040.008	1NC1F-1327	MCFI-1NC-32 MC-1553-1.0		PT	NDE-36	SS	02.00 00.344		
B09.040.009	1NC1F-1330	MCFI-1NC-32 MC-1553-1.0		PT	NDE-36	SS	02.00 00.344		
B09.040.010	1NC1F-1328	MCFI-1NC-32 MC-1553-1.0		PT	NDE-36	SS	02.00 00.344		
B09.040.108	1NI1F-1970	MCFI-1NI-49 MC-1562-4.0		PT	NDE-36	SS	01.50 00.281	-----	STRESS WELD SELECTION CRITERIA 4.2.2
B09.040.109	1NI1F-1971	MCFI-1NI-49 MC-1562-1.0		PT	NDE-36	SS	01.50 00.281	-----	STRESS WELD SELECTION CRITERIA 4.2.2
B09.040.110	1NI1F-1983	MCFI-1NI-49 MC-1562-1.0		PT	NDE-36	SS	01.50 00.281	-----	STRESS WELD SELECTION CRITERIA 4.2.2
B09.040.111	1NI1F-1984	MCFI-1NI-49 MC-1562-1.0		PT	NDE-36	SS	01.50 00.281		STRESS WELD SELECTION CRITERIA 4.2.2

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.040.112	1NI1F-2596	MCFI-1NI-64 MC-1562-1.0		PT	NDE-36	SS	01.50 00.281	-----	STRESS WELD SELECTION CRITERIA 4.2.2
B09.040.114	1NI1F-2595	MCFI-1NI-64 MC-1562-1.0		PT	NDE-36	SS	01.50 00.281	-----	STRESS WELD SELECTION CRITERIA 4.2.2
B09.040.207	1NV1F-890	MCFI-1NV-25 MC-1554-1.0		PT	NDE-36	SS	01.50 00.281		
B09.040.209	1NV1F-1552	MCFI-1NV-45 MC-1554-1.2		PT	NDE-36	SS	02.00 00.344		
B09.040.211	1NV1F-4890	MCFI-1NV-125 MC-1554-1.1		PT	NDE-36	SS	02.00 00.344		
B09.040.217	1NV1F-5422	MCFI-1NV-137 MC-1554-1.0		PT	NDE-36	SS	02.00 00.344		
B09.040.221	1NV1F-6575	MCFI-1NV-143 MC-1554-1.1		PT	NDE-36	SS	02.00 00.344		
B09.040.225	1NV1F-7091	MCFI-1NV-153 MC-1554-1.2		PT	NDE-36	SS	02.00 00.344		STRESS WELD SELECTION CRITERIA 4.2.3

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B10.010 000	PIPING INTEGRALLY	WELDED ATTACHMENTS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
B10.020 000	PUMP INTEGRALLY	WELDED ATTACHMENTS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
B10.030 000	VALVE INTEGRALLY	WELDED ATTACHMENTS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B12.010.000	PUMP CASING WELDS***	****************** ******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B12.020.000	PUMP CASING	(INTERNAL SURFACES)* ******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B12.020.004	1RCP-1D	MCM 1201.01-7		VT3	QAL-14	SS	77.00 04.500	_____	PUMP CASING INTERNAL SURFACES INSPECT ONLY IF DISASSEMBLED
B12.030.000	VALVE BODY WELDS	LESS THAN 4 INCH NPS ******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B12.040.000	VALVE BODY WELDS	4 INCH NPS OR LARGER ******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B12.050.000	VALVE BODY EXCEEDING	4 INCH NPS (INTERNAL SURFACES)*	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	INSPECT ONE VALVE IN EACH OF THE FOLLOWING 7 GROUPS **************************** ****************************
B12.050.001A	1NC-1	MCM 1205.09-0001 MC-1553-2.0		VT3	QAL-14	SS	06.00 __.__	_____	MCFI-1NC5 CROSBY RELIEF VALVE
B12.050.001B	1NC-2	MCM 1205.09-0001 MC-1553-2.0		VT3	QAL-14	SS	06.00 __.__	_____	MCFI-1NC-5 CROSBY RELIEF VALVE

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B12.050.001C	1NC-3	MCM 1205.09-0001 MC-1553-2.0		VT3	QAL-14	SS	06.00		MCFI-1NC-5 CROSBY RELIEF VALVE
B12.050.003B	1NI-65B	MCM1205.00-0012 MC-1562-2.0		VT3	QAL-14	SS	10.00		MCFI-1NI80 CRANE-ALOYCO GATE VALVE
B12.050.004C	1NI-70	MC 1205.36-0011 MC 1562-2.0		VT3	QAL-14	SS	10.00		MCFI-1NI80 ATWOOD-MORRILL CHECK VALVE

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***** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
B13.050.000	REACTOR VESSEL	INTERIOR ATTACHMENTS *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	WITHIN BELTLINE REGION******** **************************** **************************** ****************************
B13.060.000	REACTOR VESSEL	INTERIOR ATTACHMENTS *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	BEYOND BELTLINE REGION******** **************************** **************************** ****************************
B13.070.000	REACTOR VESSEL	CORE SUPPORT STRUCTURE***********	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************

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*** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	****************************** ****************************** ****************************** ******************************
B14.010.011	1RVP-CRDM-65	MCM 1201.01-224		PT	NDE-36	IN/SS	04.00 00.642	-----	CRD HOUSING WELD (PERIPHERAL)

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16.010.000	STEAM GENERATOR	TUBING IN STRAIGHT TUBE DESIGN*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B16.020.000	STEAM GENERATOR	TUBING IN U-TUBE DESIGN**************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
B16.020.001	1SGA-TUBES	MCM 1201.01-135 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	SELECT CALIBRATION STANDARD PER VOLUME 1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT ____________________________
B16.020.002	1SGB-TUBES	MCM 1201.01-136 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	SELECT CALIBRATION STANDARD PER VOLUME 1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT ____________________________
B16.020.003	1SGC-TUBES	MCM 1201.01-137 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	SELECT CALIBRATION STANDARD PER VOLUME 1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT ____________________________
B16.020.004	1SGD-TUBES	MCM 1201.01-138 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	SELECT CALIBRATION STANDARD PER VOLUME 1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT ____________________________

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C01.010.000	PRESSURE VESSEL	SHELL CIRCUMFERENTIAL WELD	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C01.010.060	1LDHX-03-10	MCM 1201.06-21		UT	NDE-601	SS	22.00 00.480	50420	LETDOWN HEAT EXCHANGER BONNET SHELL TO BONNET FLANGE LIMITED 78% EXAMINED
C01.020.000	PRESSURE VESSEL HEAD	TO SHELL CIRCUMFERE-NTIAL WELDS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C01.030.000	PRESSURE VESSEL	TUBESHEET TO SHELL WELD****************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C01.030.001	1SGA-02-03	MCM 1201.01-135		UT	NDE-621 NDE-641	CS	__.__ 03.310	50279	STEAM GENERATOR 1A TUBESHEET TO STUB BARRELL LIMITED 86.57% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C02.010.000	NOZZLES IN VESSELS	****************** ******************	***** ***** *****	***	******* *******	***** **********			LESS THAN OR EQUAL TO 1/2 INCH NOMINAL THICKNESS************ *************************** ***************************
C02.011.000	NOZZLE TO SHELL	(OR HEAD) WELD****** ******************	***** ***** *****	***	******* *******	***** **********			*************************** *************************** *************************** ***************************
C02.020.000	NOZZLES WITHOUT	REINFORCING PLATE IN VESSELS************	***** ***** *****	***	******* *******	***** **********			GREATER THAN 1/2 INCH NOMINAL THICKNESS****************** *************************** ***************************
C02.021.000	NOZZLE TO SHELL	(OR HEAD) WELD****** ******************	***** ***** *****	***	******* *******	*****			*************************** *************************** *************************** ***************************
C02.021.001	1SGA-UH-7-9	MCM 1201.01-117 MCM 1201.01-135		UT	NDE-621 NDE-641	CS	32.00 03.820	50279	STEAM GENERATOR 1A MAIN STEAM NOZZLE TO UPPER HEAD MCM 1201.01-480 99.2% EXAMINED
C02.021.001A	1SGA-UH-7-9	MCM 1201.01-117 MCM 1201.01-135		MT	NDE-26	CS	32.00 03.820		STEAM GENERATOR 1A MAIN STEAM NOZZLE TO UPPER HEAD MCM 1201.01-480
C02.022.000	NOZZLE INSIDE RADIUS	****************** ******************	***** ***** *****	***	******* *******	*****			*************************** *************************** *************************** ***************************
C02.022.001	1SGA-UH-7-9	MCM 1201.01-117 MCM-1201.01-135		UT	NDE-681	CS	32.00 03.820	50279	STEAM GENERATOR 1A MAIN STEAM NOZZLE INSIDE RADIUS MCM 1201.01-480 93.6% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C02.030.000	NOZZLES WITH	REINFORCING PLATE IN VESSELS*************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	GREATER THAN 1/2 INCH NOMINAL THICKNESS******************** *************************** ***************************
C02.031.000	REINFORCING PLATE	WELDS TO NOZZLE AND VESSEL**************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
C02.032.000	NOZZLE TO SHELL	(OR HEAD) WELDS***** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN INSIDE OF VESSEL IS ACCESSIBLE***************** *************************** ***************************
C02.033.000	NOZZLE TO SHELL	(OR HEAD) WELDS***** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	WHEN INSIDE OF VESSEL IS INACCESSIBLE**************** *************************** ***************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C03.010.000	PRESSURE VESSEL	INTEGRALLY WELDED ATTACHMENTS*********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C03.010.002	1SWHX-SUPP	MCM 1201.06-9		PT	NDE-36	CS	__.__ 00.750	_____	SEAL WATER HEAT EXCHANGER SUPPORT
C03.010.003	1NSHX-1A-SUPP	MCM 1201.06-25		PT	NDE-36	CS	__.__ __.__	-----	CONTAINMENT SPRAY HEAT EXCHANGER SUPPORT
C03.020.000	PIPING INTEGRALLY	WELDED ATTACHMENTS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C03.030.000	PUMP INTEGRALLY	WELDED ATTACHMENTS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C03.030.001	1CCPUMP-1A-LEG	MCM 1201.05-228		PT	NDE-36	SS	__.__ __.__	_____	CENTRIFUGAL CHARGING PUMP 4 SUPPORT LEGS
C03.040.000	VALVE INTEGRALLY	WELDED ATTACHMENTS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C04.010.000	PRESSUR. VESSEL	BOLTS AND STUDS***** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
C04.020.000	PIPING BOLTS /ND	STUDS************** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
C04.030.000	PUMP BOLTS AND	STUDS************** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************
C04.040.000	VALVE BOLTS AND	STUDS************** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.010.000	CLASS 2	PIPING WELDS******** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	GREATER THAN OR EQUAL TO 3/8 INCH NWT FOR PIPING GREATER THAN 4 INCH NPS*************** ****************************
C05.011.000	CLASS 2 PIPING	CIRCUMFERENTIAL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C05.011.001	1ND1F-232	MCFI 1ND-22 M 1561-1.0		UT	NDE-601 NDE-611	SS	14.00 01.250	50213	100% EXAMINED
C05.011.001A	1ND1F-232	MCFI 1ND-22 MC 1561-1.0		PT	NDE-36	SS	14.00 01.250	_____	
C05.011.002	1ND26-4	MCFI 1ND23 MC 1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	TO BE DONE WITH C05.012.001 GREATER THAN 90% EXAMINED
C05.011.002A	1ND26-4	MCFI 1ND23 MC 1561-1.0		PT	NDE-35	SS	18.00 00.375	_____	TO BE DONE WITH C05.012.001A SEE FIELD CHANGE NO. 93-02
C05.011.003	1ND1F-38	MCFI 1ND23 MC 1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	TO BE DONE WITH C05.012.003 GREATER THAN 90% EXAMINED
C05.011.003A	1ND1F-38	MCFI 1ND23 MC 1561-1.0		PT	NDE-35	SS	18.00 00.375	_____	TO BE DONE WITH C05.012.003A SEE FIELD CHANGE NO. 93-02

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.004	1ND26-1	MCFI 1ND23 MC 1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	TO BE DONE WITH C05.012.004 GREATER THAN 90% EXAMINED
C05.011.004A	1ND26-1	MCFI 1ND23 MC 1561-1.0		PT	NDE-35	SS	18.00 00.375		TO BE DONE WITH C05.012.004A SEE FIELD CHANGE NO. 93-02
C05.011.005	1ND26-2	MCFI 1ND23 MC 1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	TO BE DONE WITH C05.012.006 GREATER THAN 90% EXAMINED
C05.011.005A	1ND26-2	MCFI 1ND23 MC 1561-1.0		PT	NDE-35	SS	18.00 00.375		TO BE DONE WITH C05.012.006A SEE FIELD CHANGE NO. 93-02
C05.011.008	1ND1F21	MCFI 1ND24 MC 1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	TO BE DONE WITH C05.012.010 GREATER THAN 90% EXAMINED
C05.011.008A	1ND1F21	MCFI 1ND24 MC 1561-1.0		PT	NDE-35	SS	18.00 00.375		TO BE DONE WITH C05.012.010A SEE FIELD CHANGE NO. 93-02
C05.011.130	1NI1F-253	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	08.00 00.906	50210	100% EXAMINED
C05.011.130A	1NI1F-253	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	08.00 00.906		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.132	1NI1F-272	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.132A	1NI1F-272	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		
C05.011.133	1NI1F-273	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.133A	1NI1F-273	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		
C05.011.134	1NI1F-254	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	08.00 00.906	50210	100% EXAMINED
C05.011.134A	1NI1F-254	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	08.00 00.906		
C05.011.136	1NI1F-255	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.136A	1NI1F-255	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.138	1NI1F-257	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.138A	1NI1F-257	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		
C05.011.139	1NI173-1	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.139A	1NI173-1	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		
C05.011.140	1NI1F-258	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.140A	1NI1F-258	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		
C05.011.141	1NI1F-259	MCFI 1NI-84 MC 1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	90.6% EXAMINED
C05.011.141A	1NI1F-259	MCFI 1NI-84 MC 1562-3.1		PT	NDE-36	SS	06.00 00.719		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.146	1NI1F-261	MCFI-1NI85 MC-1562-3.1		UT	NDE-601	SS	06.00 00.719	50211	100% EXAMINED
C05.011.146A	1NI1F-261	MCFI-1NI85 MC-1562-3.1		PT	NDE-36	SS	C6.00 00.719		
C05.012.000	CLASS 2 PIPING	LONGITUDINAL WELDS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
C05.012.001	1ND26-4LA	MCFI-1ND-23 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	REDUCER SIDE TO BE DONE WITH C05.011.002 GREATER THAN 90% EXAMINED
C05.012.001A	1ND26-4LA	MCFI-1ND-23 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		REDUCER SIDE TO BE DONE WITH C05.011.002A SEE FIELD CHANGE NO. 93-02
C05.012.002	1ND26-4LB	MCFI-1ND-23 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	TEE SIDE TO BE DONE WITH C05.011.002 GREATER THAN 90% EXAMINED
C05.012.002A	1ND26-4LB	MCFI-1ND-23 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		TEE SIDE TO BE DONE WITH C05.011.002A SEE FIELD CHANGE NO. 93-02
C05.012.003	1ND1F-38L	MCFI-1ND-23 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	ELBOW TO BE DONE WITH C05.011.003 GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.012.003A	1ND1F-38L	MCFI-1ND-23 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		ELBOW TO BE DONE WITH C05.011.003A SEE FIELD CHANGE NO. 93-02
C05.012.004	1ND26-1LA	MCFI-1ND-23 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	45 DEG. ELBOW TO ELBOW TO BE DONE FROM 45 DEG. SIDE TO BE DONE WITH C05.011.004 GREATER THAN 90% EXAMINED
C05.012.004A	1ND26-1LA	MCFI-1ND-23 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		45 DEG. ELBOW TO ELBOW TO BE DONE FROM 45 DEG. SIDE TO BE DONE WITH C05.011.004A SEE FIELD CHANGE NO. 93-02
C05.012.005	1ND26-1LB	MCFI-1ND-23 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	45 DEG. ELBOW TO ELBOW TO BE DONE FROM 90 DEG. SIDE TO BE DONE WITH C05.011.004 GREATER THAN 90% EXAMINED
C05.012.005A	1ND26-1LB	MCFI-1ND-23 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		45 DEG. ELBOW TO ELBOW TO BE DONE FROM 90 DEG. SIDE TO BE DONE WITH C05.011.004A SEE FIELD CHANGE NO. 93-02
C05.012.006	1ND26-2L	MCFI-1ND-23 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	ELBOW TO BE DONE WITH C05.011.005 GREATER THAN 90% EXAMINED
C05.012.006A	1ND26-2L	MCFI-1ND-23 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		ELBOW TO BE DONE WITH C05.011.005A SEE FIELD CHANGE NO. 93-02
C05.012.010	1ND1F-21L	MCFI-1ND-24 MC-1561-1.0		UT	NDE-601	SS	18.00 00.375	50325	ELBOW TO BE DONE WITH C05.011.008 GREATER THAN 90% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.012.010A	1ND1F-21L	MCFI-1ND-24 MC-1561-1.0		PT	NDE-35	SS	18.00 00.375		ELBOW TO BE DONE WITH C05.011.008A SEE FIELD CHANGE NO. 93-02
C05.020.000	CLASS 2 PIPING WELDS	GREATER THAN 1/5 INCH NWT************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		FOR PIPING GREATER THAN OR EQUAL TO 2 INCH NPS AND LESS THAN OR EQUAL TO 4 INCH NPS*** ******************************
C05.021.000	CLASS 2 PIPING	CIRCUMFERENTIAL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		****************************** ****************************** ****************************** ******************************
C05.021.001	1NI357-1	MCFI-1NI37 MC-1562-3.0		UT	NDE-601	SS	04.00 00.531	50275	100% EXAMINED
C05.021.001A	1NI357-1	MCFI-1NI37 MC-1562-3.0		PT	NDE-36	SS	04.00 00.531	-----	
C05.021.002	1NI389-2	MCFI-1NI41 MC-1562-3.0		UT	NDE-601	SS	04.00 00.531	50275	100% EXAMINED
C05.021.002A	1NI389-2	MCFI-1NI41 MC-1562-3.0		PT	NDE36	SS	04.00 00.531	-----	
C05.021.003	1NI390-1	MCFI-1NI41 MC-1562-3.0		UT	NDE-601	SS	02.00 00.344	50217	100% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.003A	1NI390-1	MCFI-1NI41 MC-1562-3.0		PT	NDE36	SS	02.00 00.344	-----	
C05.021.004	1NI1F-2302	MCFI-1NI59 MC-1562-3.0		UT	NDE-601	SS	03.00 00.438	50225	100% EXAMINED
C05.021.004A	1NI1F-2302	MCFI-1NI59 MC-1562-3.0		PT	NDE-36	SS	03.00 00.438	-----	
C05.021.005	1NI1F-321A	MCFI-1NI74 MC-1562-1.0		UT	NDE-601	SS	03.00 00.438	50225	100% EXAMINED
C05.021.005A	1NI1F-321A	MCFI-1NI74 MC-1562-1.0		PT	NDE-36	SS	03.00 00.438	-----	
C05.021.006	1NI250-2	MCFI-1NI82 MC-1562-3.1		UT	NDE-601	SS	04.00 00.438	50275	93.8% EXAMINED
C05.021.006A	1NI250-2	MCFI-1NI82 MC-1562-3.1		PT	NDE-36	SS	04.00 00.438	-----	
C05.021.007	1NI214-4	MCFI-1NI83 MC-1562-3.1		UT	NDE-601	SS	04.00 00.531	50275	100% EXAMINED

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.007A	1NI214-4	MCFI-1NI83 MC-1562-3.1		PT	NDE-36	SS	04.00 00.531	-----	
C05.021.008	1NI1F-508	MCFI-1NI88 MC-1562-3.0		UT	NDE-601	SS	04.00 00.531	50275	100% EXAMINED 100% EXAMINED
C05.021.008A	1NI1F-508	MCFI-1NI88 MC-1562-3.0		PT	NDE-36	SS	04.00 00.531	-----	
C05.021.009	1NI15-1	MCFI-1NI91 MC-1562-3.0		UT	NDE-601	SS	03.00 00.300	50435	100% EXAMINED
C05.021.009A	1NI15-1	MCFI-1NI91 MC-1562-3.0		PT	NDE-36	SS	03.00 00.300	-----	
C05.021.010	1NI15-2	MCFI-1NI91 MC-1562-3.0		UT	NDE-601	SS	04.00 00.337	50436	100% EXAMINED
C05.021.010A	1NI15-2	MCFI-1NI91 MC-1562-3.0		PT	NDE36	SS	04.00 00.337	-----	
C05.022.000	CLASS 2 PIPING	LONGITUDINAL WELDS** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.030.000	CLASS 2	SOCKET WELDS******** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
C05.030.050	1NV1F-215	MCFI-1NV-1 MC-1554-3.1		PT	NDE-36	SS	02.00 00.344		
C05.030.051	1NV1F-226	MCFI-1NV-1 MC-1554-3.1		PT	NDE-36	SS	02.00 00.154		
C05.030.052	1NV1F-6178	MCFI-1NV-5 MC-1554-1.1		PT	NDE-36	SS	02.00 00.344		
C05.030.053	1NV1F-601	MCFI-1NV-16 MC-1554-1.0		PT	NDE-36	SS	02.00 00.344		
C05.030.054	1NV1F-625	MCFI-1NV-16 MC-1554-1.0		PT	NDE-36	SS	02.00 00.344		
C05.030.055	1NV165-1	MCFI-1NV-33 MC-1554-1.1		PT	NDE-36	SS	02.00 00.344		
C05.030.056	1NV1F165-166	MCFI-1NV-33 MC-1554-1.1		PT	NDE-36	SS	02.00 00.344		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.030.057	1NV1F-1216	MCFI-1NV-33 MC-1554-1.1	_____ _____ _____	PT	NDE-36 _______	SS __________	02.00 00.344	_____	
C05.030.058	1NV1F-1267	MCFI-1NV-35 MC-1554-1.1	_____ _____ _____	PT	NDE-36 _______	SS __________	02.00 00.344	_____	
C05.040.000	CLASS 2	BRANCH CONNECTION PIPING WELDS********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	GREATER THAN OR EQUAL TO 2 INCH NPS******************** *************************** ***************************
C05.041.000	CLASS 2 BRANCH	CONNECTION PIPING CIRCUMFERENTIAL WELD	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
C05.041.001	1NI31-14	MCFI-1NI-22 MC-1562-3.0	_____ _____ _____	PT	NDE-36 _______	SS __________	02.00 00.344	_____	
C05.042.000	CLASS 2 BRANCH	CONNECTION PIPING LONGITUDINAL WELDS**	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************
C05.050.000	CLASS 2 PIPING WELDS	> THAN OR EQUAL TO 3/8 INCH NNT	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	FOR PIPING GREATER THAN 4 INCH NPS************************ *************************** ***************************
C05.051.000	CLASS 2 PIPING	CIRCUMFERENTIAL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	*************************** *************************** *************************** ***************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.051.001	1CA1F-475	MCFI-1CA-13 MC-1592-1.0		UT	NDE-601	CS	06.00 00.432	50331	93.31% EXAMINED
C05.051.001A	1CA1F-475	MCFI-1CA-13 MC-1592-1.0		MT	NDE-26	CS	06.00 00.432		
C05.051.002	1CA1F-480	MCFI-1CA-13 MC-1592-1.0		UT	NDE-601	CS	06.00 00.432	50331	GREATER THAN 90% EXAMINED
C05.051.002A	1CA1F-480	MCFI-1CA-13 MC-1592-1.0		MT	NDE-26	CS	06.00 00.432		
C05.051.007	1CA1F-540	MCFI-1CA-15 MC-1592-1.0		UT	NDE-601	CS	06.00 00.719	50355	TERMINAL END STEAM GENERATOR 1D 100% EXAMINED
C05.051.007A	1CA1F-540	MCFI-1CA-15 MC-1592-1.0		MT	NDE-26	CS	06.00 00.719		TERMINAL END STEAM GENERATOR 1D
C05.051.010	1CA1F-575	MCFI-1CA-16 MC-1592-1.0		UT	NDE-601	CS	06.00 00.719	50355	TERMINAL END STEAM GENERATOR 1A 92% EXAMINED
C05.051.010A	1CA1F-575	MCFI-1CA-16 MC-1592-1.0		MT	NDE-26	CS	06.00 00.719		TERMINAL END STEAM GENERATOR 1A

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.051.013	1CA1F-679	MCFI-1CA-18 MC-1592-1.0		UT	NDE-601	CS	06.00 00.719	50355	TERMINAL END STEAM GENERATIOR 1C 100% EXAMINED
C05.051.013A	1CA1F-679	MCFI-1CA-18 MC-1592-1.0		MT	NDE-26	CS	06.00 00.719		TERMINAL END STEAM GENERATOR 1C
C05.051.016	1CA1F-699	MCFI-1CA-19 MC-1592-1.0		UT	NDE-601	CS	06.00 00.719	50355	TERMINAL END STEAM GENERATOR 1B 100% EXAMINED
C05.051.016A	1CA1F-699	MCFI-1CA-19 MC-1592-1.0		MT	NDE-26	CS	06.00 00.719		TERMINAL END STEAM GENERATOR 1B
C05.051.100	1RV1F-1748	MCFI RV-31 MC 1604-3.0		UT	NDE-601	CS	12.00 00.375	50440	TO BE DONE WITH C05.052.050 100% EXAMINED
C05.051.100A	1RV1F-1748	MCFI RV-31 MC 1604-3.0		MT	NDE-26	CS	12.00 00.375		TO BE DONE WITH C05.052.050A
C05.051.151	1SA1F-258	MCFI 1SA-3 MC 1593-1.2		UT	NDE-601	CS	06.00 00.432	50331	GREATER THAN 90% EXAMINED
C05.051.151A	1SA1F-258	MCFI 1SA-3 MC 1593-1.2		MT	NDE-26	CS	06.00 00.432		

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.051.251	1SV1F-128	MCFI 1SV3 MC 1593-1.0		UT	NDE-601	CS	06.00 00.432	50331	GREATER THAN 90% EXAMINED
C05.051.251A	1SV1F-128	MCFI 1SV-3 MC 1593-1.0		MT	NDE-26	CS	06.00 00.432		
C05.052.000	CLASS 2 PIPING	LONGITUDINAL WELDS** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
C05.052.050	1RV1F-1748L	MCFI-RV-31 MC-1604-3.0		UT	NDE-601	CS	12.00 00.375	50440	ELBOW TO BE DONE WITH C05.051.100 GREATER THAN 90% EXAMINED
C05.052.050A	1RV1F 1748L	MCFI-RV-31 MC-1604-3.0		MT	NDE-26	CS	12.00 00.375		ELBOW TO BE DONE WITH C05.051.100A
C05.060.000	CLASS 2 PIPING WELDS	GREATER THAN 1/5 INCH NWT************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		FOR PIPING GREATER THAN OR EQUAL TO 2 INCH AND LESS THAN OR EQUAL TO 4 INCH NPS******** ****************************
C05.061.000	CLASS 2 PIPING	CIRCUMFERENTIAL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************
C05.062.000	CLASS 2 PIPING	LONGITUDINAL WELDS***************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		**************************** **************************** **************************** ****************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.070.000	CLASS 2	SOCKET WELDS******** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************
C05.080.000	CLASS 2	BRANCH CONNECTION PIPING**************	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	GREATER THAN OR EQUAL TO 2 INCH NPS******************** *************************** ***************************
C05.081.000	CLASS 2 BRANCH	CONNECTION PIPING CIRCUMFERENTIAL WELD	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************
C05.082.000	CLASS 2 BRANCH	CONNECTION PIPING LONGITUDINAL WELDS**	***** ***** *****	***	******* *******	***** **********	__.__ __.___	_____	*************************** *************************** *************************** ***************************

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C06.010.000	PUMP CASING WELDS***	******************* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	***************************** ***************************** ***************************** *****************************
C06.020.000	VALVE BODY WELDS****	******************* *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	INSPECT ONE VALVE IN EACH OF THE FOLLOWING 8 GROUPS ***************************** *****************************
C06.020.001A	1CF-26-1	MCM 2205.00-3/2 MCFI-1CF4	_____ _____ _____	MT	NDE-26 _______	CS __________	12.00 01.360	_____	VALVE BODY TO BONNET
C06.020.001B	1CF-28-1	MCM 2205.00-3/2 MCFI-1CF4	_____ _____ _____	MT	NDE-26 _______	CS __________	12.00 01.360	_____	VALVE BODY TO BONNET
C06.020.001C	1CF-30-1	MCM 2205.00-3/2 MCFI-1CF4	_____ _____ _____	MT	NDE-26 _______	CS __________	12.00 01.360	_____	VALVE BODY TO BONNET
C06.020.001D	1CF-35-1	MCM 2205.00-3/2 MCFI-1CF4	_____ _____ _____	MT	NDE-26 _______	CS __________	12.00 01.360	_____	VALVE BODY TO BONNET

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.10.000	CLASS 1	PIPING SUPPORTS***** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__		***************************** ***************************** ***************************** *****************************
F1.10.001-C	1-MCR-NC-500	MCSRD NC-001		VT	QAL-14		14.00		SPRING HANGER
F1.10.002-A	1-MCR-NC-501	MCSRD NC-001		VT	QAL-14		14.00		RIGID SUPPORT
F1.10.003-C	1MCR-NC-506	MCSRD NC-003		VT	QAL-14		06.00		SPRING HANGER
F1.10.004-A	1-MCR-NC-507	MCSRD NC-003		VT	QAL-14		06.00		RIGID RESTRAINT/SUPPORT
F1.10.051-A	1-MCR-ND-500	MCSRD ND-001		VT	QAL-14		14.00		RIGID SUPPORT
F1.10.101-C	1-MCR-NI-515	MCSRD NI-001		VT	QAL-14		06.00		HYDRAULIC SNUBBER
F1.10.102-A	1-MCR-NI-521	MCSRD NI-001		VT	QAL-14		10.00		RIGID RESTRAINT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.10.104-C	1-MCR-NI-528	MCSRD NI-001		VT	QAL-14		06.00		HYDRAULIC SNUBBER
F1.10.162-C	1-MCR-NV-1234	MCSRD NV-002		VT	QAL-14		03.00		MECHANICAL SNUBBER
F1.10.163-C	1-MCR-NV-1291	MCSRD NV-009		VT	QAL-14		02.00		MECHANICAL SNUBBER
F1.10.164-C	1-MCR-NV-1292	MCSRD NV-009		VT	QAL-14		02.00		SPRING HANGER
F1.20.000	CLASS 2	PIPING SUPPORTS***** *******************	***** ***** *****	***	******* *******	***** **********			*************************** *************************** *************************** ***************************
F1.20.006-A	1-MCR-CA-400	MCSRD-CAN		VT	QAL-14		06.00		RIGID SUPPORT
F1.20.008-C	1-MCA-CA-415	MCSRD-CAN		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.20.010-A	1MCA-CA-426	MCSRD-CAO		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
F1.20.054-C	1-MCR-CF-175	MCSRD-CFC		VT	QAL-14		18.00		MECHANICAL SNUBBER
F1.20.153-B	1-MCA-ND-017	MCSRD-NDA		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.155-C	1-MCA-ND-023	MCSRD-NDA		VT	QAL-14		08.00		SPRING HANGER
F1.20.157-B	1-MCA-ND-059	MCSRD-NDA		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.160-A	1-MCA-ND-076	MCSRD-NDA		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.163-A	1-MCA-ND-084	MCSRD-NDA		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.202-A	1-MCA-NI-005	MCSRD-NIA		VT	QAL-14		06.00		RIGID SUPPORT
F1.20.203-C	1-MCA-NI-006	MCSRD-NIA		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
F1.20.209-B	1-MCR-NI-555	MCSRD-NI-003		VT	QAL-14		06.00		RIGID SUPPORT
F1.20.211-C	1-MCR-NI-676	MCSRD-NI-011		VT	QAL-14		04.00		HYDRAULIC SNUBBER
F1.20.212-B	1-MCR-NI-685	MCSRD-NI-011		VT	QAL-14		02.00		RIGID SUPPORT
F1.20.251-A	1-MCA-NS-002	MCSRD-NSC		VT	QAL-14		10.00		RIGID SUPPORT
F1.20.252-A	1-MCA-NS-003	MCSRD-NSC		VT	QAL-14		10.00		RIGID SUPPORT
F1.20.253-C	1-MCA-NS-007	MCSRD-NSB		VT	QAL-14		10.00		SPRING HANGER
F1.20.254-C	1-MCA-NS-011	MCSRD-NSB		VT	QAL-14		10.00		SPRING HANGER
F1.20.301-A	MC 1683-NV-01-R6A	MC 1683-NV-01		VT	QAL-14		02.00		RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.20.302-A	MC 1683-NV-01-R88	MC 1683-NV-01		VT	QAL-14		02.00		RIGID SUPPORT
F1.20.303-A	1-MCA-NV-006	MCSRD-NVD		VT	QAL-14		06.00		RIGID SUPPORT
F1.20.304-A	1-MCA-NV-008	MCSRD-NVD		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.305-A	1-MCA-NV-011	MCSRD-NVD		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.306-A	1-MCA-NV-012	MCSRD-NVD		VT	QAL-14		08.00		RIGID SUPPORT
F1.20.307-A	1-MCA-NV-013	MCSRD-NVD		VT	QAL-14		06.00		RIGID SUPPORT
F1.20.308-C	1-MCA-NV-014	MCSRD-NVD		VT	QAL-14		06.00		SPRING HANGER
F1.20.451-C	1-MCA-RN-959	MCSRD-RN-309		VT	QAL-14		06.00		MECHANICAL SNUBBER

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

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 8

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.20.501-C	1-MCA-SA-019	MCSRD-SAA		VT	QAL-14		06.00		SPRING HANGER
F1.20.551-C	1-MCA-SM-012	MCSRD-SMA		VT	QAL-14		42.00		HYDRAULIC SNUBBER
F1.20.553-C	1-MCA-SM-020	MCSRD-SMA		VT	QAL-14		42.00		HYDRAULIC SNUBBER
F1.20.602-C	1-MCA-SV-017	MCSRD-SVA		VT	QAL-14		06.00		HYDRAULIC SNUBBER
F1.20.651-C	1-MCA-VQ-010	MCSRD-VQA		VT	QAL-14		06.00		HYDRAULIC SNUBBER
F1.30.000	CLASS 3	PIPING SUPPORTS***** ********************	***** ***** *****	***	******* *******	***** **********			****************************** ****************************** ****************************** ******************************
F1.30.001-A	1-MCA-CA-086	MCSRD-CAA		VT	QAL-14		06.00		RIGID SUPPORT
F1.30.051-A	1-MCA-NV-812	MCSRD-NV-10		VT	QAL-14		03.00		RIGID SUPPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.30.052-B	1-MCA-NV-816	MCSRD-NV-10		VT	QAL-14		03.00		RIGID SUPPORT
F1.40.000	SUPPORTS OTHER THAN	PIPING SUPPORTS***** *******************	***** ***** *****	***	******* *******	***** **********			**************************** **************************** **************************** ****************************
F1.40.008	1RHR-HX-SUP-1A	MCM 1201.06-7 MCM 1201.06-22		VT	QAL-14				1A RHR HEAT EXCHANGER RIGID MC 1223-1
F1.40.009	1CS-HX-SUP-1A	MCM 1201.15-206 MC 1223-1		VT	QAL-14				1A CONTAINMENT SPRAY HEAT EXCHANGER MC 1220-32&1220-103
F1.40.010	1REG-HX-SUP	MCM 1201.06-54		VT	QAL-14				REGENERATIVE HEAT EXCHANGER

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
G01.001.000	REACTOR COOLANT	PUMP FLYWHEEL EXAM** *******************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	____	*************************** *************************** *************************** ***************************
G01.001.002	1RCP-1B	MCM 1201.01-7		UT	NDE-901	CS	__.__ __.__	____	REACTOR COOLANT PUMP 1B FLYWHEEL GREATER THAN 90% EXAMINED
G01.001.002A	1RCP-1B	MCM 1201.01-7		MT	NDE-26	CS	__.__ __.__	____	INSPECT IF DISASSEMBLED MINIMUM ONCE PER INTERVAL
G01.001.003	1RCP-1C	MCM 1201.01-7		UT	NDE-901	CS	__.__ __.__	____	REACTOR COOLANT PUMP 1C FLYWHEEL GREATER THAN 90% EXAMINED
G01.001.004	1RCP-1D	MCM 1201.01-7		UT	NDE-901	CS	__.__ __.__	____	REACTOR COOLANT PUMP 1D FLYWHEEL GREATER THAN 90% EXAMINED
G01.001.004A	1RCP-1D	MCM 1201.01-7		MT	NDE-26	CS	__.__ __.__	____	INSPECT IF DISASSEMBLED MINIMUM ONCE PER INTERVAL

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
G02.001.000	STEAM GENERATOR	PREHEATER SECTION TUBE EXAMS**********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
G02.001.001	1SGA-TUBES	MCM 1201.01-135 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	DONE WITH B16.020.001 SELECT CAL.STD.PER VOL.1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT
G02.001.002	1SGB-TUBES	MCM 1201.01-136 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	DONE WITH B16.020.002 SELECT CAL.STD.PER VOL.1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT
G02.001.003	1SGC-TUBES	MCM 1201.01-137 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	DONE WITH B16.020.003 SELECT CAL.STD.PER VOL.1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT
G02.001.004	1SGD-TUBES	MCM 1201.01-138 MCM 1201.01-187	_____ _____ _____	ET	NDE-701 _______	IN __________	00.75 00.043	_____	DONE WITH B16.020.004 SELECT CAL.STD.PER VOL.1 SECTION 10.2 SEE EDDY CURRENT EXAM. REPORT

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
G03.001.000	PIPE RUPTURE	PROTECTION********** ********************	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	****************************** ****************************** ****************************** ******************************

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
G04.001.000	STEAM GENERATOR	FEEDWATER MODIFICATION********	***** ***** *****	***	******* *******	***** **********	__.__ __.__	_____	**************************** **************************** **************************** ****************************
G04.001.003	1SGC-CF-MOD			VT	QAL-14	CS	__.__ __.__	_____	STEAM GENERATOR 1C FEEDWATER MODIFICATION

4.0 <u>Final Inservice Inspection Plan For Outage 8</u>

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

McGUIRE UNIT NUMBER 1
CLASS A (CATEGORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC	COMMENTS
B15.010.001	MCL-1553-1.0	00	LEAK	VESSEL	UNIT 1 REACTOR	VT-2	QAL-15	
B15.020.001	MCL-1553-2.0	00	LEAK	VESSEL	PRESSURIZER	VT-2	QAL-15	
B15.030.001	MCL-1553-1.0	00	LEAK	VESSEL	STEAM GENERATOR 1A	VT-2	QAL-15	
B15.030.002	MCL-1553-1.0	00	LEAK	VESSEL	STEAM GENERATOR 1B	VT-2	QAL-15	
B15.030.003	MCL-1553-1.0	00	LEAK	VESSEL	STEAM GENERATOR 1C	VT-2	QAL-15	
B15.030.004	MCL-1553-1.0	00	LEAK	VESSEL	STEAM GENERATOR 1D	VT-2	QAL-15	
B15.050.001	MCL-1553-1.0	00	LEAK	PIPING	NC SYSTEM	VT-2	QAL-15	
B15.050.002	MCL-1553-2.0	00	LEAK	PIPING	NC SYSTEM	VT-2	QAL-15	
B15.050.003	MCL-1553-2.1	02	LEAK	PIPING	NC SYSTEM	VT-2	QAL-15	
B15.050.004	MCL-1554-1.0	01	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15	
B15.050.005	MCL-1554-1.1	01	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15	
B15.050.006	MCL-1554-1.2	01	LEAK	PIPING	NV SYSTEM	VT-2	QAL-15	
B15.050.007	MCL-1561-1.0	02	LEAK	PIPING	NC SYSTEM	VT-2	QAL-15	
B15.050.008	MCL-1562-1.0	01	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15	
B15.050.009	MCL-1562-2.0	01	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15	
B15.050.010	MCL-1562-2.1	01	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15	
B15.050.011	MCL-1562-3.0	01	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15	

McGUIR. UNIT NUMBER 1
CLASS A (CA GORY B-P) REQUIREMENTS
FOR OUTAGE NUMBER 8

ITEM NO.	DRAWING	REV	TEST	COMP	COMP NAME	REQ. INSP	REQ. PROC	COMMENTS
B15.050.012	MCL-1562-3.1	01	LEAK	PIPING	NI SYSTEM	VT-2	QAL-15	
B15.060.001	MCL-1553-1.0	00	LEAK	PUMP	RCP 1A	VT-2	QAL-15	
B15.060.002	MCL-1553-1.0	00	LEAK	PUMP	RCP-1B	VT-2	QAL-15	
B15.060.003	MCL-1553-1.0	00	LEAK	PUMP	RCP-1C	VT-2	QAL-15	
B15.060.004	MCL-1553-1.0	00	LEAK	PUMP	RCP-1D	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. All examinations revealing reportable indications are described in further detail in Section 6.

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

A. Items examined by NDE methods

Item Number	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2),IWF-2500-1 (Class 1, Class 2), Augmented and Alternate Requirements
ID Number	=	Unique Identification Number
Inspection Date	=	Date of Examination
Inspection Status	=	
CLR	=	Clear
REC	=	Recordable
REP	=	Reportable
*Inspection Limited	=	*Reference paragraph 5.2 below
L	=	Limited
-	=	No
Geo. Ref.	=	Geometric Reflector (Applies only to UT)
N	=	No
Y	=	Yes
Comments	=	General and/or Detail Description

History for Pressurizer Lower Head to Shell Weld
Item Number B02.011.001

The McGuire Unit 1 pressurizer lower head to shell weld (B02.011.001) was subject to ultrasonic examination during the first inspection interval. Recordable indications were first detected in the examination performed in 1986. At the time, several indications exceeded ASME Section XI, IWB-3500 acceptance standards and fracture mechanics analysis was performed to show that the vessel was qualified for continued service. The areas containing the unacceptable (IWB-3500) indications were rescheduled for examination during the next (3) periods to monitor the indications for growth.

In 1990 the indications were reexamined and it was determined that no change had taken place.

In 1993 the areas were reexamined during the second interval examination which gave preliminary analysis that the results indicated a change in conditions from the 1986 and 1990 examinations. To resolve this condition EPRI NDE Center and B&W Nuclear Technologies were used to help characterize the condition.

The examinations were conducted with automated and manual examination techniques. Using these techniques a total of eight flaws were found to be considered recordable to ASME Code Recording Standards. **None** of the flaws exceeded the acceptance standards of IWB-3500 using the ASME Code through-wall dimensioning criteria.

For complete results reference the Babcock & Wilcox May 1993 Examination Report (UT Examination of Pressurizer Welds).

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 8

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B01.030.001	1RPV 7-442	03/23/93	CLR	L	N	57.41% EXAMINED
B01.040.001	1RPV 6-446A	04/19/93	CLR	_	N	94.41% EXAMINED
B01.040.001A	1RPV 6-446A	04/15/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B02.011.001	1PZR-1	05/18/93	REC	_	Y	B&W ISI-134 (OT.8) GR.90% EX.

NOTE: See Section 5.0 of this report for Attachment 1
(History for Pressurizer Lower Head to Shell Weld).

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B03.090.005A	1RPV5-445E	10/15/91	CLR	L	N	
B03.090.006A	1RPV5-445F	10/15/91	REC	L	Y	
B03.090.007A	1RPV5-445G	10/16/91	REC	L	Y	
B03.090.008A	1RPV5-445H	10/16/91	CLR	L	Y	
B03.100.005	1RPV5-445ER	10/29/91	REC	L	Y	
B03.100.006	1RPV5-445FR	10/29/91	REC	L	Y	
B03.100.007	1RPV5-445GR	10/28/91	CLR	L	N	
B03.100.008	1RPV5-445HR	10/29/91	CLR	L	N	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B05.010.005	1RPV 3-445F-SE	10/14/91	REC	L	Y	CAL. BK. 50214 USED
B05.010.005A	1RPV 3-445F-SE	10/14/91	REC	L	Y	USED 50214
B05.010.005B	1RPV 3-445F-SE	03/19/93	CLR	_	_	B05.130.005B
B05.010.006	1RPV 3-445E-SE	10/28/91	CLR	_	N	CAL.BK. 50214 USED
B05.010.006A	1RPV 3-445E-SE	10/28/91	CLR	_	N	CAL. BK.50214 USED
B05.010.006B	1RPV 3-445E-SE	03/19/93	CLR	_	_	B05.130.001B
B05.010.007	1RPV 3-445H-SE	10/28/91	CLR	_	N	CAL. BK. 50214 USED
B05.010.007A	1RPV 3-445H-SE	10/28/91	CLR	_	N	CAL. BK.50214 USED
B05.010.007B	1RPV 3-445H-SE	03/19/93	CLR	_	_	B05.130.013B
B05.010.008	1RPV 3-445G-SE	10/29/91	CLR	_	Y	CAL. BK. 50214 USED
B05.010.008A	1RPV 3-445G-SE	10/29/91	CLR	_	Y	CAL. BK. 50214 USED
B05.010.008B	1RPV 3-445G-SE	03/19/93	CLR	_	_	B05.130.009B
B05.130.001	1NC1F-1-1	10/29/91	CLR	_	N	REF. B&W 1991 RPV REPORT
B05.130.001B	1NC1F-1-1	03/19/93	CLR	_	_	______________________________
B05.130.005	1NC1F-2-1	10/28/91	CLR	_	N	REF. B&W 1991 RPV REPORT

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B05.130.005B	1NC1F-2-1	03/19/93	CLR	_	_	______________________________
B05.130.009	1NC1F-3-1	10/19/91	CLR	_	N	REF. B&W 1991 RPV REPORT
B05.130.009B	1NC1F-3-1	03/19/93	CLR	_	_	______________________________
B05.130.013	1NC1F-4-1	10/28/91	CLR	_	N	REF. B&W 1991 RPV REPORT
B05.130.013B	1NC1F-4-1	03/19/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.010.001	1RPV-449-02-01	04/19/93	CLR	_	_	
B06.010.002	1RPV-449-02-02	04/19/93	CLR	_	_	
B06.010.003	1RPV-449-02-03	04/19/93	CLR	_	_	
B06.010.004	1RPV-449-02-04	04/19/93	CLR	_	_	
B06.010.005	1RPV-449-02-05	04/19/93	CLR	_	_	
B06.010.006	1RPV-449-02-06	04/19/93	CLR	_	_	
B06.010.007	1RPV-449-02-07	04/19/93	CLR	_	_	
B06.010.008	1RPV-449-02-08	04/19/93	CLR	_	_	
B06.010.009	1RPV-449-02-09	04/19/93	CLR	_	_	
B06.010.010	1RPV-449-02-10	04/19/93	CLR	_	_	
B06.010.011	1RPV-449-02-11	04/19/93	CLR	_	_	
B06.030.001	1RPV-449-01-01	04/30/93	CLR	_	N	100% EXAMINED
B06.030.001A	1RPV-449-01-01	04/19/93	CLR	_	_	
B06.030.002	1RPV-449-01-02	04/30/93	CLR	_	N	100% EXAMINED
B06.030.002A	1RPV-449-01-02	04/19/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.030.003	1RPV-449-01-03	04/30/93	CLR	_	N	100% EXAMINED
B06.030.003A	1RPV-449-01-03	04/19/93	CLR	_	_	______
B06.030.004	1RPV-449-01-04	04/30/93	CLR	_	N	100% EXAMINED
B06.030.004A	1RPV-449-01-04	04/19/93	CLR	_	_	______
B06.030.005	1RPV-449-01-05	04/30/93	CLR	_	N	100% EXAMINED
B06.030.005A	1RPV-449-01-05	04/19/93	CLR	_	_	______
B06.030.006	1RPV-449-01-06	04/30/93	CLR	_	N	100% EXAMINED
B06.030.006A	1RPV-449-01-06	04/19/93	CLR	_	_	______
B06.030.007	1RPV-449-01-07	04/30/93	CLR	_	N	100% EXAMINED
B06.030.007A	1RPV-449-01-07	04/19/93	CLR	_	_	______
B06.030.008	1RPV-449-01-08	04/30/93	CLR	_	N	100% EXAMINED
B06.030.008A	1RPV-449-01-08	04/19/93	CLR	_	_	______
B06.030.009	1RPV-449-01-09	04/30/93	CLR	_	N	100% EXAMINED
B06.030.009A	1RPV-449-01-09	04/19/93	CLR	_	_	______
B06.030.010	1RPV-449-01-10	04/30/93	CLR	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.030.010A	1RPV-449-01-10	04/19/93	CLR	_	_	______________________________
B06.030.011	1RPV-449-01-11	04/30/93	CLR	_	N	100% EXAMINED
B06.030.011A	1RPV-449-01-11	04/19/93	CLR	_	_	______________________________
B06.040.001	1RPV-THREAD-01	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.002	1RPV-THREAD-02	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.003	1RPV-THREAD-03	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.004	1RPV-THREAD-04	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.005	1RPV-THREAD-05	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.006	1RPV-THREAD-06	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.007	1RPV-THREAD-07	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.008	1RPV-THREAD-08	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.009	1RPV-THREAD-09	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.010	1RPV-THREAD-10	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.011	1RPV-THREAD-11	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.012	1RPV-THREAD-12	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.040.013	1RPV-THREAD-13	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.014	1RPV-THREAD-14	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.015	1RPV-THREAD-15	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.016	1RPV-THREAD-16	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.017	1RPV-THREAD-17	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.018	1RPV-THREAD-18	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.019	1RPV-THREAD-19	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.020	1RPV-THREAD-20	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.021	1RPV-THREAD-21	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.022	1RPV-THREAD-22	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.023	1RPV-THREAD-23	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.024	1RPV-THREAD-24	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.025	1RPV-THREAD-25	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.026	1RPV-THREAD-26	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.027	1RPV-THREAD-27	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.040.028	1RPV-THREAD-28	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.029	1RPV-THREAD-29	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.030	1RPV-THREAD-30	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.031	1RPV-THREAD-31	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.032	1RPV-THREAD-32	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.033	1RPV-THREAD-33	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.034	1RPV-THREAD-34	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.035	1RPV-THREAD-35	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.036	1RPV-THREAD-36	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.037	1RPV-THREAD-37	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.038	1RPV-THREAD-38	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.039	1RPV-THREAD-39	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.040	1RPV-THREAD-40	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.041	1RPV-THREAD-41	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.042	1RPV-THREAD-42	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.040.043	1RPV-THREAD-43	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.044	1RPV-THREAD-44	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.045	1RPV-THREAD-45	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.046	1RPV-THREAD-46	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.047	1RPV-THREAD-47	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.048	1RPV-THREAD-48	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.049	1RPV-THREAD-49	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.050	1RPV-THREAD-50	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.051	1RPV-THREAD-51	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.052	1RPV-THREAD-52	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.053	1RPV-THREAD-53	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.040.054	1RPV-THREAD-54	03/24/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.050.001	1RPV-449-03-01	05/10/93	CLR	_	_	______________________________
B06.050.002	1RPV-449-03-02	05/10/93	CLR	_	_	______________________________
B06.050.003	1RPV-449-03-03	05/10/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.050.004	1RPV-449-03-04	05/10/93	CLR	_	_	
B06.050.005	1RPV-449-03-05	05/10/93	CLR	_	_	
B06.050.006	1RPV-449-03-06	05/10/93	CLR	_	_	
B06.050.007	1RPV-449-03-07	05/10/93	CLR	_	_	
B06.050.008	1RPV-449-03-08	05/10/93	CLR	_	_	
B06.050.009	1RPV-449-03-09	05/10/93	CLR	_	_	
B06.050.010	1RPV-449-03-10	05/10/93	CLR	_	_	
B06.050.011	1RPV-449-03-11	05/10/93	CLR	_	_	
B06.180.001	1RCP-1A-F	04/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
B06.190.004	1RCP-1D-FLANGE	04/23/93	REC	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B07.050.001	1NC-5-FL1	05/07/93	CLR	_	_	
B07.050.002	1NC-5-FL2	05/07/93	CLR	_	_	
B07.050.003	1NC-5-FL3	05/07/93	CLR	_	_	
B07.070.003	1NC-3	03/30/93	CLR	_	_	
B07.070.065	1NI-71	04/26/93	REC	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.011.001	1NC-3091-W1	04/07/93	CLR	_	N	98.7% EXAMINED
B09.011.001A	1NC-3091-W1	04/01/93	CLR	_	_	______________________________
B09.011.002	1NC1F-1-4	04/07/93	CLR	_	N	100% EXAMINED
B09.011.002A	1NC1F-1-4	04/01/93	CLR	_	_	______________________________
B09.011.033	1NC1F-1850	04/28/93	CLR	L	N	LIMITED 81.94% EXAMINED
B09.011.033A	1NC1F-1850	04/26/93	CLR	_	_	______________________________
B09.011.036	1NC1F-539	04/28/93	REC	L	Y	LIMITED 78% EXAMINED
B09.011.036A	1NC1F-539	04/27/93	CLR	_	_	______________________________
B09.011.040	1NC1F-542	04/28/93	CLR	L	N	LIMITED 77.5% EXAMINED
B09.011.040A	1NC1F-542	04/26/93	CLR	_	_	______________________________
B09.011.042	1NC1F-541	04/28/93	REC	_	Y	100% EXAMINED
B09.011.042A	1NC1F-541	04/26/93	CLR	_	_	______________________________
B09.011.047	1NC1F-544	04/28/93	REC	_	Y	90% EXAMINED
B09.011.047A	1NC1F-544	04/26/93	CLR	_	_	______________________________
B09.011.066	1NC1F-1746	04/27/93	REC	L	Y	LIMITED 53% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.011.066A	1NC1F-1746	04/26/93	CLR	_	_	______________________________
B09.011.067	1NC1F-1739	04/28/93	CLR	_	N	91.54% EXAMINED
B09.011.067A	1NC1F-1739	04/27/93	CLR	_	_	______________________________
B09.011.068	1NC1F-3612-PZR	04/08/93	CLR	_	N	100% EXAMINED
B09.011.068A	1NC1F-3612-PZR	04/01/93	CLR	_	_	______________________________
B09.011.100	1ND1F-236	05/05/93	REC	_	Y	100% EXAMINED
B09.011.100A	1ND1F-236	04/07/93	CLR	_	_	______________________________
B09.011.101	1ND1F-237	05/05/93	REC	_	Y	100% EXAMINED
B09.011.101A	1ND1F-237	04/07/93	CLR	_	_	______________________________
B09.011.102	1ND1F-238	05/05/93	REC	_	Y	100% EXAMINED
B09.011.102A	1ND1F-238	04/07/93	CLR	_	_	______________________________
B09.011.103	1ND1F-241	05/05/93	REC	_	Y	100% EXAMINED
B09.011.103A	1ND1F-241	04/[illegible]/93	CLR	_	_	______________________________
B09.011.213	1NI1F-286	04/12/93	CLR	_	N	100% EXAMINED
B09.011.213A	1NI1F-286	03/23/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.011.215	1NI-200-2	04/14/93	CLR	_	N	100% EXAMINED
B09.011.215A	1NI-200-2	03/23/93	CLR	_	_	____________
B09.011.224	1NI1F-262	04/14/93	CLR	_	N	100% EXAMINED
B09.011.224A	1NI1F-262	03/23/93	CLR	_	_	____________
B09.021.006	1NC1F-1273	04/01/93	CLR	_	_	____________
B09.021.007	1NC1F-2593	04/01/93	CLR	_	_	____________
B09.021.100	1NIP-403-2	04/13/93	CLR	_	_	____________
B09.031.001	1NC47-WN4A	04/01/93	CLR	L	N	LIMITED 49.5% EXAMINED
B09.031.001A	1NC47-WN4A	04/01/93	CLR	_	_	____________
B09.031.002	1NC47-WN4B	04/01/93	CLR	L	N	LIMITED 48.2% EXAMINED
B09.031.002A	1NC47-WN4B	04/01/93	CLR	_	_	____________
B09.032.001	1NC3-WN8	04/13/93	CLR	_	_	____________
B09.032.002	1NC3-WN2	04/01/93	CLR	_	_	____________
B09.032.003	1NC19-WN2	04/13/93	CLR	_	_	____________
B09.032.004	1NC22-WN8	04/01/93	CLR	_	_	____________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.040.003	1NC1F-934	04/13/93	CLR	_	_	
B09.040.008	1NC1F-1327	04/01/93	CLR	_	_	
B09.040.009	1NC1F-1330	04/01/93	CLR	_	_	
B09.040.010	1NC1F-1328	04/01/93	CLR	_	_	
B09.040.108	1NI1F-1970	04/13/93	CLR	_	_	
B09.040.109	1NI1F-1971	04/13/93	CLR	_	_	
B09.040.110	1NI1F-1983	04/13/93	CLR	_	_	
B09.040.111	1NI1F-1984	04/13/93	CLR	_	_	
B09.040.112	1NI1F-2596	04/13/93	CLR	_	_	
B09.040.114	1NI1F-2595	04/13/93	CLR	_	_	
B09.040.207	1NV1F-890	04/01/93	CLR	_	_	
B09.040.209	1NV1F-1552	04/13/93	CLR	_	_	
B09.040.211	1NV1F-4890	04/13/93	CLR	_	_	
B09.040.217	1NV1F-5422	04/13/93	CLR	_	_	
B09.040.221	1NV1F-6575	04/13/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B09.040.225	1NV1F-7091	04/08/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B12.020.004	1RCP-1D	04/08/93	CLR	_	_	
B12.050.001A	1NC-1	03/29/93	CLR	_	_	
B12.050.001B	1NC-2	03/30/93	CLR	_	_	
B12.050.001C	1NC-3	03/30/93	CLR	_	_	
B12.050.003B	1NI-65B	04/29/93	CLR	_	_	
B12.050.004C	1NI-70	04/30/93	REC	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B14.010.011	1RVP-CRDM-65	04/15/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B16.020.001	1SGA-TUBES	__/__/__		_	_	
B16.020.002	1SGB-TUBES	__/__/__		_	_	
B16.020.003	1SGC-TUBES	__/__/__		_	_	
B16.020.004	1SGD-TUBES	__/__/__		_	_	

NOTE: For examination results reference Eddy Current Examination Report (RFO-8, 1993) of the Diversified Services Group of the Generation Services Department.

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C01.010.060	1LDHX-03-10	05/19/93	REC	L	Y	LIMITED 78% EXAMINED
C01.030.001	1SGA-02-03	03/30/93	CLR	L	N	LIMITED 86.57% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C02.021.001	1SGA-UH-7-9	04/26/93	CLR	_	N	99.2% EXAMINED
C02.021.001A	1SGA-UH-7-9	04/06/93	CLR	_	_	______________________________
C02.022.001	1SGA-UH-7-9	04/26/93	CLR	_	N	93.6% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C03.010.002	1SWHX-SUPP	05/04/93	CLR	_	_	
C03.010.003	1NSHX-1A-SUPP	05/11/93	CLR	_	_	
C03.030.001	1CCPUMP-1A-LEG	05/04/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.001	1ND1F-232	05/05/93	REC	_	Y	100% EXAMINED
C05.011.001A	1ND1F-232	04/07/93	CLR	_	_	______________________________
C05.011.002	1ND26-4	03/12/93	REC	_	Y	GREATER THAN 90% EXAMINED
C05.011.002A	1ND26-4	03/10/93	CLR	_	_	______________________________
C05.011.003	1ND1F-38	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.011.003A	1ND1F-38	03/10/93	CLR	_	_	______________________________
C05.011.004	1ND26-1	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.011.004A	1ND26-1	03/10/93	CLR	_	_	______________________________
C05.011.005	1ND26-2	03/12/93	CLR	_	N	REATER THAN 90% EXAMINED
C05.011.005A	1ND26-2	03/10/93	CLR	_	_	______________________________
C05.011.008	1ND1F21	03/12/93	REC	_	Y	REATER THAN 90% EXAMINED
C05.011.008A	1ND1F21	03/10/93	CLR	_	_	______________________________
C05.011.130	1NI1F-253	04/12/93	CLR	_	N	100% EXAMINED
C05.011.130A	1NI1F-253	03/23/93	CLR	_	_	______________________________
C05.011.132	1NI1F-272	04/12/93	CLR	_	N	100% EXAMINED

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.132A	1NI1F-272	03/23/93	CLR	_	_	______________________________
C05.011.133	1NI1F-273	04/12/93	REC	_	Y	100% EXAMINED
C05.011.133A	1NI1F-273	03/23/93	CLR	_	_	______________________________
C05.011.134	1NI1F-254	04/12/93	CLR	_	N	100% EXAMINED
C05.011.134A	1NI1F-254	03/23/93	CLR	_	_	______________________________
C05.011.136	1NI1F-255	04/12/93	REC	_	Y	100% EXAMINED
C05.011.136A	1NI1F-255	03/23/93	CLR	_	_	______________________________
C05.011.138	1NI1F-257	04/14/93	REC	_	Y	100% EXAMINED
C05.011.138A	1NI1F-257	03/23/93	CLR	_	_	______________________________
C05.011.139	1NI173-1	04/14/93	CLR	_	N	100% EXAMINED
C05.011.139A	1NI173-1	03/23/93	CLR	_	_	______________________________
C05.011.140	1NI1F-258	04/14/93	CLR	_	N	100% EXAMINED
C05.011.140A	1NI1F-258	03/23/93	CLR	_	_	______________________________
C05.011.141	1NI1F-259	04/14/93	CLR	_	N	90.6% EXAMINED
C05.011.141A	1NI1F-259	03/23/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.146	1NI1F-261	04/14/93	REC	_	Y	100% EXAMINED
C05.011.146A	1NI1F-261	03/23/93	CLR	_	_	______________________________
C05.012.001	1ND26-4LA	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.012.001A	1ND26-4LA	03/10/93	CLR	_	_	______________________________
C05.012.002	1ND26-4LB	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.012.002A	1ND26-4LB	03/10/93	CLR	_	_	______________________________
C05.012.003	1ND1F-38L	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.012.003A	1ND1F-38L	03/10/93	CLR	_	_	______________________________
C05.012.004	1ND26-1LA	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.012.004A	1ND26-1LA	03/10/93	CLR	_	_	SEE FIELD CHANGE NO. 93-02
C05.012.005	1ND26-1LB	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.012.005A	1ND26-1LB	03/10/93	CLR	_	_	SEE FIELD CHANGE NO. 93-02
C05.012.006	1ND26-2L	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.012.006A	1ND26-2L	03/10/93	CLR	_	_	______________________________
C05.012.010	1ND1F-21L	03/12/93	CLR	_	N	GREATER THAN 90% EXAMINED

PROGRAM: NISIRUND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 1
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 8

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.012.010A	1ND1F-21L	03/10/93	CLR	_	_	________
C05.021.001	1NI357-1	04/07/93	REC	_	Y	100% EXAMINED
C05.021.001A	1NI357-1	04/08/93	CLR	_	_	________
C05.021.002	1NI389-2	04/13/93	REC	_	Y	100% EXAMINED
C05.021.002A	1NI389-2	04/07/93	CLR	_	_	________
C05.021.003	1NI390-1	04/14/93	REC	_	Y	100% EXAMINED
C05.021.003A	1NI390-1	04/07/93	CLR	_	_	________
C05.021.004	1NI1F-2302	03/25/93	REC	_	Y	100% EXAMINED
C05.021.004A	1NI1F-2302	03/25/93	CLR	_	_	________
C05.021.005	1NI1F-321A	04/06/93	CLR	_	N	100% EXAMINED
C05.021.005A	1NI1F-321A	03/23/93	CLR	_	_	________
C05.021.006	1NI250-2	04/06/93	REC	_	Y	93.8% EXAMINED
C05.021.006A	1NI250-2	03/23/93	CLR	_	_	________
C05.021.007	1NI214-4	04/14/93	REC	_	Y	100% EXAMINED
C05.021.007A	1NI214-4	03/23/93	CLR	_	_	________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.021.008	1NI1F-508	04/07/93	REC	_	Y	100% EXAMINED
C05.021.008A	1NI1F-508	03/23/93	CLR	_	_	
C05.021.009	1NI15-1	03/24/93	CLR	_	N	100% EXAMINED
C05.021.009A	1NI15-1	03/24/93	CLR	_	_	
C05.021.010	1NI15-2	03/24/93	CLR	_	N	100% EXAMINED
C05.021.010A	1NI15-2	03/24/93	CLR	_	_	
C05.030.050	1NV1F-215	03/24/93	CLR	_	_	
C05.030.051	1NV1F-226	05/11/93	CLR	_	_	
C05.030.052	1NV1F-6178	03/24/93	CLR	_	_	
C05.030.053	1NV1F-601	03/23/93	CLR	_	_	
C05.030.054	1NV1F-625	03/23/93	CLR	_	_	
C05.030.055	1NV165-1	04/13/93	CLR	_	_	
C05.030.056	1NV1F165-166	04/07/93	CLR	_	_	
C05.030.057	1NV1F-1216	04/07/93	CLR	_	_	
C05.030.058	1NV1F-1267	03/23/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.041.001	1NI31-14	03/24/93	CLR	_	_	______________________________
C05.051.001	1CA1F-475	04/20/93	REC	_	Y	93.31% EXAMINED
C05.051.001A	1CA1F-475	04/06/93	CLR	_	_	______________________________
C05.051.002	1CA1F-480	03/24/93	REC	_	Y	GREATER THAN 90% EXAMINED
C05.051.002A	1CA1F-480	03/24/93	CLR	_	_	______________________________
C05.051.007	1CA1F-540	05/10/93	REC	_	Y	100% EXAMINED
C05.051.007A	1CA1F-540	04/20/93	CLR	_	_	______________________________
C05.051.010	1CA1F-575	05/10/93	REC	_	Y	92% EXAMINED
C05.051.010A	1CA1F-575	04/06/93	CLR	_	_	______________________________
C05.051.013	1CA1F-679	05/10/93	REC	_	Y	100% EXAMINED
C05.051.013A	1CA1F-679	04/20/93	CLR	_	_	______________________________
C05.051.016	1CA1F-699	05/10/93	REC	_	Y	100% EXAMINED
C05.051.016A	1CA1F-699	04/20/93	CLR	_	_	______________________________
C05.051.100	1RV1F-1748	05/12/93	REC	_	Y	100% EXAMINED
C05.051.100A	1RV1F-1748	05/11/93	CLR	_	_	______________________________

PROGRAM: NISIRUND-GAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 1
KEY: ITEM NUMBER C05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 8

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.051.151	1SA1F-258	03/24/93	REC	_	Y	GREATER THAN 90% EXAMINED
C05.051.151A	1SA1F-258	03/24/93	CLR	_	_	______________________________
C05.051.251	1SV1F-128	03/24/93	REC	_	Y	GREATER THAN 90% EXAMINED
C05.051.251A	1SV1F-128	03/24/93	CLR	_	_	______________________________
C05.052.050	1RV1F-1748L	05/12/93	CLR	_	N	GREATER THAN 90% EXAMINED
C05.052.050A	1RV1F-1748L	05/11/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C06.020.001A	1CF-26-1	03/31/93	CLR	_	_	
C06.020.001B	1CF-28-1	03/31/93	CLR	_	_	
C06.020.001C	1CF-30-1	03/31/93	CLR	_	_	
C06.020.001D	1CF-35-1	03/31/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.10.001-C	1-MCR-NC-500	04/15/93	CLR	_	_	
F1.10.002-A	1-MCR-NC-501	04/20/93	CLR	_	_	
F1.10.003-C	1MCR-NC-506	03/25/93	CLR	_	_	
F1.10.004-A	1-MCR-NC-507	04/20/93	CLR	_	_	
F1.10.051-A	1-MCR-ND-500	04/15/93	REC	_	_	
F1.10.101-C	1-MCR-NI-515	03/25/93	REC	_	_	
F1.10.102-A	1-MCR-NI-521	04/15/93	CLR	_	_	
F1.10.104-C	1-MCR-NI-528	03/25/93	REC	_	_	
F1.10.162-C	1-MCR-NV-1234	03/25/93	REC	_	_	
F1.10.163-C	1-MCR-NV-1291	03/25/93	REC	_	_	
F1.10.164-C	1-MCR-NV-1292	03/25/93	CLR	_	_	
F1.20.006-A	1-MCR-CA-400	03/25/93	CLR	_	_	
F1.20.008-C	1-MCA-CA-415	03/11/93	CLR	_	_	
F1.20.010-A	1MCA-CA-4[illegible]6	03/11/93	CLR	_	_	
F1.20.054-C	1-MCR-CF-175	04/15/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.20.153-B	1-MCA-ND-017	04/13/93	CLR	_	_	
F1.20.155-C	1-MCA-ND-023	03/10/93	CLR	_	_	
F1.20.157-B	1-MCA-ND-059	04/13/93	CLR	_	_	
F1.20.160-A	1-MCA-ND-076	04/13/93	CLR	_	_	
F1.20.163-A	1-MCA-ND-084	04/13/93	CLR	_	_	
F1.20.202-A	1-MCA-NI-005	02/09/93	CLR	_	_	
F1.20.203-C	1-MCA-NI-006	02/09/93	CLR	_	_	
F1.20.209-B	1-MCR-NI-555	04/15/93	CLR	_	_	
F1.20.211-C	1-MCR-NI-676	04/15/93	CLR	_	_	
F1.20.212-B	1-MCR-NI-685	04/15/93	CLR	_	_	
F1.20.251-A	1-MCA-NS-002	03/10/93	CLR	_	_	
F1.20.252-A	1-MCA-NS-003	02/09/93	CLR	_	_	
F1.20.253-C	1-MCA-NS-007	03/10/93	CLR	_	_	
F1.20.254-C	1-MCA-NS-011	02/09/93	CLR	_	_	
F1.20.301-A	MC 1683-NV-01-R6A	05/07/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.20.302-A	MC 1683-NV-01-R8B	05/15/93	CLR	_	_	
F1.20.303-A	1-MCA-NV-006	02/09/93	CLR	_	_	
F1.20.304-A	1-MCA-NV-008	02/09/93	CLR	_	_	
F1.20.305-A	1-MCA-NV-011	02/09/93	CLR	_	_	
F1.20.306-A	1-MCA-NV-012	02/17/93	CLR	_	_	
F1.20.307-A	1-MCA-NV-013	04/13/93	CLR	_	_	
F1.20.308-C	1-MCA-NV-014	03/10/93	CLR	_	_	
F1.20.451-C	1-MCA-RN-959	03/10/93	REC	_	_	
F1.20.501-C	1-MCA-SA-019	03/11/93	REC	_	_	
F1.20.551-C	1-MCA-SM-012	03/11/93	REC	_	_	
F1.20.553-C	1-MCA-SM-020	03/27/93	REC	_	_	
F1.20.602-C	1-MCA-SV-017	03/11/93	CLR	_	_	
F1.20.651-C	1-MCA-VQ-010	03/10/93	CLR	_	_	
F1.30.001-A	1-MCA-CA-086	03/10/93	REC	_	_	
F1.30.051-A	1-MCA-NV-812	03/10/93	CLR	_	_	

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.30.052-B	1-MCA-NV-816	04/13/93	CLR	_	_	______________________________
F1.40.008	1RHR-HX-SUP-1A	03/11/93	CLR	_	_	______________________________
F1.40.009	1CS-HX-SUP-1A	03/11/93	CLR	_	_	______________________________
F1.40.010	1REG-HX-SUP	06/03/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
G01.001.002	1RCP-1B	04/13/93	CLR	_	N	GREATER THAN 90% EXAMINED
G01.001.002A	1RCP-1B	05/04/93	CLR	_	_	______________________________
G01.001.003	1RCP-1C	04/26/93	CLR	_	N	GREATER THAN 90% EXAMINED
G01.001.004	1RCP-1D	04/20/93	CLR	_	N	GREATER THAN 90% EXAMINED
G01.001.004A	1RCP-1D	0[illegible]19/93	CLR	_	_	______________________________

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
G02.001.001	1SGA-TUBES	__/__/__		-	-	______________
G02.001.002	1SGB-TUBES	__/__/__		-	-	______________
G02.001.003	1SGC-TUBES	__/__/__		-	-	______________
G02.001.004	1SGD-TUBES	__/__/__		-	-	______________

NOTE: For examination results reference Eddy Current Examination Report (RFO-8, 1993) of the Diversified Services Group of the Generation Services Department.

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
G04.001.003	1SGC-CF-MOD	04/23/93	CLR	_	_	

5.0 Results Of Inspections Performed During Outage 8

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

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
Examination Date	=	Latest Examination date
Condition	=	Partial or Complete test
Status	=	Clear,Recordable or Reportable
Comments	=	General and/or Detail Description

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS	COMMENTS
B15.010.001	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.020.001	MCL-1553-2.0	06/10/93	COMPLETE	CLEAR	
B15.030.001	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.030.002	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.030.003	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.030.004	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.050.001	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.050.002	MCL-1553-2.0	06/10/93	COMPLETE	CLEAR	
B15.050.003	MCL-1553-2.1	06/10/93	COMPLETE	CLEAR	
B15.050.004	MCL-1554-1.0	06/10/93	COMPLETE	CLEAR	
B15.050.005	MCL-1554-1.1	06/10/93	COMPLETE	CLEAR	
B15.050.006	MCL-1554-1.2	06/10/93	COMPLETE	CLEAR	
B15.050.007	MCL-1561-1.0	06/10/93	COMPLETE	CLEAR	
B15.050.008	MCL-1562-1.0	06/10/93	COMPLETE	CLEAR	
B15.050.009	MCL-1562-2.0	06/10/93	COMPLETE	CLEAR	
B15.050.010	MCL-1562-2.1	06/10/93	COMPLETE	CLEAR	
B15.050.011	MCL-1562-3.0	06/10/93	COMPLETE	CLEAR	

McGUIRE UNIT NUMBER 1
PRESSURE TEST RESULTS FOR OUTAGE 8

ITEM NO.	DRAWING	EXAMINATION DATE	CONDITION	STATUS	COMMENTS
B15.050.012	MCL-1562-3.1	06/10/93	COMPLETE	CLEAR	
B15.060.001	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.060.002	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.060.003	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	
B15.060.004	MCL-1553-1.0	06/10/93	COMPLETE	CLEAR	

5.2 Limited Examinations (Less than 90% Examination Coverage)

A. There were four item numbers inspected for which the required 90% or greater examination coverage was not obtained. These item numbers are listed below along with the Request for Relief Number that will be filed for these limited Inspections.

Item Number	Request for Relief Serial Number
B09.031.001	93-04
B09.031.002	93-04
C01.010.060	93-04
C01.030.001	93-04

6.0 Reportable Indications

None

7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from December 8, 1991 to June 12, 1993 at McGuire 1 were certified in accordance with the requirements of 1986 Edition of ASME Section XI. 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. The periodic calibration records for the Babcock & Wilcox inspection equipment are on file at the Babcock & Wilcox Offices in Lynchburgh, Virginia.

8.0 Corrective Action

Corrective Action to document reportable items was not required during Outage 8.

9.0 Reference Documents

The following reference documents apply to the inservice inspection performed during Outage 8 at McGuire Unit 1:

(1) Babcock & Wilcox May 1993 Examination Report (UT Examination of Pressurizer Welds)
(2) Eddy Current Examination Report (RFO-8, 1993)
(3) Request for Relief # MNS-004

10.0 Class 1 and 2 Repairs and Replacements

10.1 As required by ASME Section XI 1980 Edition, a record of the Class 1 and 2 Repairs and Replacements for work performed from December 8, 1991 through November 30, 1992 is provided and is included in this section of the report. The individual work request documents are on file at McGuire Nuclear Station.

10.2 As required by ASME Section XI 1986 Edition, a record (Form NIS-2) of the Class 1 and 2 Repairs and Replacements for work performed from December 1, 1992 to June 12, 1993 is provided and is included in this section of the report. The individual work request documents are on file at McGuire Nuclear Station.

Listed below are work order not shown on NIS-2 List (End Of EOC7 to 12-1-92 Prior To NIS-2 Forms). WRAT work request converted to WMS.

WRATS #	WMS - Work Order #	Description
03985E	92036849	Primary Man Way Stud Steam Generator 1A
03987E	92036851	Primary Man Way Stud Steam Generator 1C
04478E	92037342	Secondary Man Way Stud Steam Generator 1A
07538B	90069292	Primary Man Way Stud Steam Generator 1B
08098D	91115072	Replace Bonnet On 6" Valve 1SA-6
08875C	91116625	6" Valve 2CF-160
09180C	91117235	B/U Stm Cut Steam Generator B Man Way
09181C	91117237	B/U Stm Cut Steam Generator C Man Way
09182C	91117239	Man Way Stud Steam Generator 1D
09183C	91117141	Steam Generator 1A Sludge Lance Cover Bolt
09184C	91117243	Steam Generator 1B Sludge Lance Cover Bolt
09186C	91117247	Steam Generator 1D Sludge Lance Cover Bolt
09239C	91117353	Replace Internals 1NI-15
09242C	91117359	Replace 1 1/2 Valve 1NI-21
09245C	91117365	Replace 1 1/2 Valve 1NI-349
09317C	91117509	Steam Generator 1A Man Way Stud
76074	91125922	Repair Valve 1NC-33
09318C	91117511	Replace Nut On Steam Generator 1B Man Way
95005	87075952	Build Up Seat 1NC-35
97655	90079561	Replace 1SM-89
144864	91119743	Replace Studs RCP Seal Near NV-831
145410	91120259	Replace 1NV-150
503205	90076068	Canopy Seal On 1CF-29
505058	91122831	Seal Weld Man Way Diaphragm
505251	91123021	Replace Studs And Nuts On NI-157
505252	91123022	Replace Studs On 1ND-2
505253	91123023	Replace Nuts On 1NI-125
98205	91126927	Weld Studs To Steel Containment Vessel
98289	91127006	Penetration 1E 396
99109	92044896	Weld Plug In C/L Of Steam Generator 1A
954297	*	Add Instrument ppg NC System
954394	*	Relief On Rx Containment
954396	*	Change SM Piping Configuration
954400	*	Change SM Piping Configuration
954427	*	Add ND Piping
954429	*	Relocate ND Name Plate

* Work request done before WMS implementation.

REPAIR AND REPLACEMENT

Work Order numbers with NIS-2 forms generated from 12-1-92 to 6-12-93. Listed below are Class A & B.

W/O #	Description
92043226	Change Out Snubber 1-MCR-S-NF-100-1.0
92047816	Change Out Snubber 1-MCA-SV-17
92086073	Add Check Valve To NS System (NSM-MG-12398)
92092896	Change Out Snubber 1-MCA-CF-H151
92092900	Change Out Snubber 1-MCA-CF-H152
92093818	Change Out Snubber 1-MC-1683-NV-04-R028
92094784	Change Out Snubber 1-MCR-NF-S-101-1-L
93005836	PZR Relief Valve Drains (NSM -MG-12333)
93015422	1CA-57 Check Valve Leak By Seal
93029381	NV Pipe And Structural Restraint At RCP-1D (NSM-MG-12418)
93033861	Modify And Inspect Structural Restraint (NSM-MG-12418)
93034212	Implement Minor Modification H3678 Hanger No. 1-MCA-SA-H183 1-MCA-SA-H184 1-MCA-SA-H196 1-MCA-SA-H198

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 2/4/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92043226
Repair Organization Job #
3b. NSM or MM # N/A

4. Identification of System NF
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	HANGER 1-MCR-NF-100-01-0	DUKE POWER	N/A	N/A	SNUBBER SER# 20505	N/A	☐ Repaired ☐ Replacement ☑ Replaced	☑ No ☐ Yes
B	HANGER 1-MCR-NF-100-01-0	DUKE POWER	N/A	N/A	SNUBBER SER# 17392	N/A	☐ Repaired ☑ Replacement ☐ Replaced	☑ No ☐ Yes
C							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
D							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work REPLACED SNUBBER

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt ☐

Pressure ______ psig Test Temp. ______ °F

Pressure ______ psig Test Temp. ______ °F

Pressure ______ psig Test Temp. ______ °F

9. Remarks STROKE TESTED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] PRODUCTION SPECIALIST Date 2/4, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 6-14-92 to 2-4-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB7728, NC853 A-N-I

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

Date 2-4, 1993

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 2/4/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Hunterville NC 28078

2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92047816
Repair Organization Job #

3b. NSM or MM # NA

4. Identification of System SV

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	HANGER 1-MCA-SV-17	DUKE POWER	NA	NA	SNUBBER SER# 20440	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
B	HANGER 1-MCA-SV-17	DUKE POWER	NA	NA	SNUBBER SER# 14814	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
C							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
D							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work REPLACED SNUBBER

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt ☐

Pressure ______ psig Test Temp. ______ °F
Pressure ______ psig Test Temp. ______ °F
Pressure ______ psig Test Temp. ______ °F

9. Remarks STROKE TESTED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed H.E. Black Production Specialist Date 2/4, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 12-14-92 to 2-4-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 2/4, 1993

'A' TR[illegible]'

FORM NIS-2 OWNER'S REPO[illegible] OR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S Church St., Charlotte NC 28201

1a. Date 5-27-93
Sheet 1 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or MM# MG-12398

4. Identification of System 1-NS
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

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

	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	HANGER 1MCR-NS-0785	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
B	HANGER 1MCR-NS-0786	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
C	HANGER 1MCR-NS-0787	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
D	HANGER 1MCR-NS-0788	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
E	HANGER 1MCA-NS-H052	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
F	HANGER 1MCA-NS-H073	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No

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

7. Description of Work 'NS' CK. VLV. ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks HANGERS NO PRESSURE TEST REQ'D (DELETED HGRS.)

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed ____ Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R Klein Commissions NB 7728 NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 1993

C

TRAIN 'A'

FORM NIS-2 OWNER'S REPO[illegible] R REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5-27-93
Sheet 2 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS

5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-84	KEROTEST MGF. CORP.	RT2-15		ITEM NO. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
B	VALVE 1NS-85	KEROTEST MGF CORP.	RT2-14		ITEM NO. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
C							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ______ psig Test Temp. ____ °F
Pressure ______ psig Test Temp. ____ °F
Pressure ______ psig Test Temp. ____ °F

9. Remarks DELETED VALVES NO PRESSURE TEST REQUIRED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed ______________ Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RW Klein Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 1993

c

FORM NIS-2 OWNER'S REP[illegible] FOR REPAIRS OR REPLACEMENTS
As Required by the Prov[illegible] of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5·27·93
Sheet 3 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components						
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-142	KEROTEST MGF. CORP.	RCA9-8	14966	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
B	VALVE 1NS-144	KEROTEST MGF. CORP.	PU18-3	12547	ITEM No. 09J-501	1976	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
C	VALVE 1NS-146	KEROTEST MGF. CORP.	PU17-9	12187	ITEM No. 09J-501	1976	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
D	VALVE 1NS-140	ANDERSON GREENWOOD	N28369	2202	MODEL No. CV1B-1030-SSE-N2 ITEM No. 1MV-388	1992	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
E	1NS SYSTEM	DUKE POWER CO.	N/A	40	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
F	VALVE 1NS-83	KEROTEST MGF. CORP.	EE9-12		ITEM No. 09J-514		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☒* Pneumatic ☒⊙ Nominal Operating Pressure ☐ Other ☐ Exempt ☐

* Pressure	245 psig	Test Temp. 78 °F
⊙ Pressure	190 psig	Test Temp. 78 °F
Pressure	psig	Test Temp. °F

9. Remarks

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 6-2, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RK Klein Commissions NB 7728, NC 853, A-N-I

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

Date 6/3, 1993

c

TRAIN 'B'

FORM NIS-2 OWNER'S REP[illegible] OR REPAIRS OR REPLACEMENTS
As Required by the Provis[illegible] of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5·27·93
Sheet 4 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-143	KEROTEST MGF. CORP.	RCA12-2	15023	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
B	VALVE 1NS-145	KEROTEST MGF. CORP.	RCA12-6	15025	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
C	VALVE 1NS-147	KEROTEST MGF. CORP.	RCA9-25	14982	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
D	VALVE 1NS-141	ANDERSON GREENWOOD	N28370	2203	MODEL No. CV'B-1030-SSE-N2 ITEM No. 1MV-388	1992	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
E	1NS SYSTEM	DUKE POWER CO.	N/A	40	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
F	VALVE 1NS-86	KEROTEST MGF. CORP.	EE9-11		ITEM No. 09J-514		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398
8. Test Conducted: Hydrostatic ☑* Pneumatic ☑⊙ Nominal Operating Pressure ☐ Other ☐ Exempt ☐

* Pressure 236 psig Test Temp. 80.5°F

⊙ Pressure 190 psig Test Temp. 81A°F

Pressure ____ psig Test Temp. ____ °F

9. Remarks ____

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed ____ Date 6, 2, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R H Klein
Inspector's Signature

Commissions NB 7728, NC 853, A N-I
National Board, State, Province and Endorsements

Date 6/3, 1993

c

TRAIN 'B'

FORM NIS-2 OWNER'S REP[illegible] R REPAIRS OR REPLACEMENTS
As Required by the Provisi[illegible] of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5-27-93
Sheet 5 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symool Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-87	KEROTEST MGF. CORP.	RT2-12		ITEM NO. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
B	VALVE 1NS-88	KEROTEST MGF CORP.	RT2-20		ITEM NO. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
C							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks DELETED VALVES NO PRESSURE TEST REQ'D

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.Klein Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 1993

'B' T[illegible]N

FORM NIS-2 OWNER'S REPO[illegible] [illegible]R REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5-27-93
Sheet 6 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System

5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

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

	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	HANGER 1MCR-NS-0789	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
B	HANGER 1MCR-NS-0790	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
C	HANGER 1MCR-NS-0791	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
D	HANGER 1MCR-NS-0792	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
E	HANGER 1MCA-FW-H087	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
F	HANGER 1MCA-NS-H053	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No

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7. Description of Work 'NS' CK. VLV. ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks HANGERS NO PRESSURE TEST REQ'D (DELETED HGRS.)

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. Klein Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 19 93

'A' TR[illegible]'

FORM NIS-2 OWNER'S REP[illegible] OR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S Church St., Charlotte NC 28201

1a. Date 5·27·93
Sheet ; of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or MM# MG-12398

4. Identification of System 1-NS

5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	HANGER 1MCR-NS-0785	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
B	HANGER 1MCR-NS-0786	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
C	HANGER 1MCR-NS-0787	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
D	HANGER 1MCR-NS-0788	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
E	HANGER 1MCA-NS-H052	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
F	HANGER 1MCA-NS-H073	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No

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7. Description of Work 'NS' CK. VLV. ADDITION NSM-MG-12358

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ______ psig Test Temp. ____ °F
Pressure ______ psig Test Temp. ____ °F
Pressure ______ psig Test Temp. ____ °F

9. Remarks HANGERS NO PRESSURE TEST REQ'D
(DELETED HGRS.)

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed ____________ Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

B. Klein
Inspector's Signature

Commissions NB 7728, NC 853, A-N-I
National Board, State, Province and Endorsements

Date 6/3, 1993

c TRAIN 'A'

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5-27-93
Sheet 2 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-84	KEROTEST MGF. CORP.	RT2-15		ITEM No. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
B	VALVE 1NS-85	KEROTEST MGF CORP.	RT2-14		ITEM No. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
C							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks DELETED VALVES NO PRESSURE TEST REQUIRED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 1993

c

FORM NIS-2 OWNER'S REP[...] FOR REPAIRS OR REPLACEMENTS
As Required by the Prov[...] of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5-27-93
Sheet 3 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#

3b. NSM ~~or MM#~~ MG-12398

4. Identification of System 1-NS

5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-142	KEROTEST MGF. CORP.	RCA9-8	14966	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
B	VALVE 1NS-144	KEROTEST MGF. CORP.	PU18-3	12547	ITEM No. 09J-501	1976	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
C	VALVE 1NS-146	KEROTEST MGF. CORP.	PU17-9	12187	ITEM No. 09J-501	1976	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
D	VALVE 1NS-140	ANDERSON GREENWOOD	N28369	2202	MODEL No. CV1B-1030-SSE-N2 ITEM No. 1MV-388	1992	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
E	1NS SYSTEM	DUKE POWER CO.	N/A	40	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
F	VALVE 1NS-83	KEROTEST MGF. CORP.	EE9-12		ITEM No. 09J-514		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM·MG·12398

8. Test Conducted: Hydrostatic ☑* Pneumatic ☑⊙ Nominal Operating Pressure ☐ Other ☐ Exempt ☐

* Pressure 245 psig Test Temp. 78 °F

⊙ Pressure 190 psig Test Temp. 78 °F

Pressure ____ psig Test Temp. ____ °F

9. Remarks ______

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 6-2, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Klein Commissions NB 7728, NC853, A-N-I

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

Date 6/3, 19 93

TRAIN 'B'

FORM NIS-2 OWNER'S REP[illegible]OR REPAIRS OR REPLACEMENTS
As Required by the Provis[illegible] of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5·27·93
Sheet 4 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6. Identification of Componen[illegible] Repaired or Replaced, and Replacement Components

	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-143	KEROTEST MGF. CORP.	RCA12-2	15023	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
B	VALVE 1NS-145	KEROTEST MGF. CORP.	RCA12-6	15025	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
C	VALVE 1NS-147	KEROTEST MGF. CORP.	RCA9-25	14982	ITEM No. 09J-501	1977	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
D	VALVE 1NS-141	ANDERSON GREENWOOD	N28370	2203	MODEL No. CVIB-1030-SSE-N2 ITEM No. 1MV-388	1992	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
E	1NS SYSTEM	DUKE POWER CO.	N/A	40	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
F	VALVE 1NS-86	KEROTEST MGF. CORP.	EE9-11		ITEM No. 09J-514		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398
8. Test Conducted: Hydrostatic ☒* Pneumatic ☒⊙ Nominal Operating Pressure ☐ Other ☐ Exempt ☐

* Pressure 236 psig Test Temp. 80.5 °F
⊙ Pressure 190 psig Test Temp. 81A °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks ____________________

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed ____________________ Date 6, 2, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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R. Klein Commissions NB 7728, NC 853, A N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 1993

TRAIN 'B'

FORM NIS-2 OWNER'S REP R REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5·27·93
Sheet 5 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM#~~ MG-12398

4. Identification of System 1-NS

5. (a) Applicable Construction Code ASMEIII, 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components						
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	VALVE 1NS-87	KEROTEST MGF. CORP.	RTZ-12		ITEM NO. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
B	VALVE 1NS-88	KEROTEST MGF CORP.	RTZ-20		ITEM NO. 09J-067		☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
C							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

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

7. Description of Work 'NS' CHECK VALVE ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ______ psig Test Temp. ___ °F
Pressure ______ psig Test Temp. ___ °F
Pressure ______ psig Test Temp. ___ °F

9. Remarks DELETED VALVES NO PRESSURE TEST REQ'D

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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R.Klein Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/3, 1993

'B' T[illegible]

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 5·27·93
Sheet 6 of 7

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
Repair Organization Job#
3b. NSM or ~~MM~~# MG-12398

4. Identification of System
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

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

	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	HANGER 1MCR·NS·0789	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
B	HANGER 1MCR·NS·0790	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
C	HANGER 1MCR·NS·0791	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
D	HANGER 1MCR·NS·0792	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
E	HANGER 1MCA·FW·H087	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
F	HANGER 1MCA·NS·H053	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No

Form NIS-2 (Back)

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

7. Description of Work 'NS' CK. VLV. ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ____ psig Test Temp. ____ °F

Pressure ____ psig Test Temp. ____ °F

Pressure ____ psig Test Temp. ____ °F

9. Remarks HANGERS NO PRESSURE TEST REQ'D (DELETED HGRS.)

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed ____ Date 5-27, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 5-20-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

B. Klein Commissions NB 7728, NC 853, A-N-I

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

Date 6/3, 19 93

5 TRAIN

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201

1a. Date 5-27-93
    Sheet 7 of 7

2. Plant McGuire Nuclear Station
   Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201
   Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92086073
    Repair Organization Job#

3b. NSM or ~~MM#~~ MG-12398

4. Identification of System

5. (a) Applicable Construction Code ASMEIII, 1971 Edition, Summer and Winter Addenda, NO Code Cases
   (b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

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

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col. 6 Year Built	Column 7 Repaired, Replaced or Replacement	Column 8 ASME Code Stamped (yes or no)
A	HANGER IMCA-NSH060	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
B	HANGER IMCA-NS-H061	DUKE POWER CO.	N/A	N/A	N/A	1981	☐ Repaired ☑ Replaced ☐ Replacement	☐ Yes ☑ No
C							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

Form NIS-2 (Back)

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

7. Description of Work 'NS' CK. VLV. ADDITION NSM-MG-12398

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☑

Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks HANGERS NO PRESSURE TEST REQ'D
(DELETED HGRS.)

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date 5-27, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 1-23-93 to 6-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R Klein Commissions NB 7728, NC 853 A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6-3, 1993

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Kerotest Manufacturing Corp. Pittsburgh, PA (NU-62699)
   (Name and Address of Manufacturer)
2. Manufactured for Duke Power Company
   (Name and Address of Purchaser or Owner)
3. Location of Installation Catawba Nuclear Power Station, Newport, SC
   (Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 1 (inch) Outlet Size 1

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	RCA12-1	N/A	CA-D-9915-(1)	1	15,022	1977
(3)	Globe	RCA12-2	N/A	CA-D-9915-(1)	1	15,023	1977
(4)	Globe	RCA12-3	N/A	CA-D-9915-(1)	1	15,024	1977
(5)	Globe	RCA12-6	N/A	CA-D-9915-(1)	1	15,025	1977
(6)	Globe	RCA12-10	N/A	CA-D-9915-(1)	1	15,026	1977
(7)	Globe	RCA12-11	N/A	CA-D-9915-(1)	1	15,027	1977
(8)	Globe	RCA12-14	N/A	CA-D-9915-(1)	1	15,028	1977
(9)	Globe	RCA12-17	N/A	CA-D-9915-(1)	1	15,029	1977
(10)	Globe	RCA12-18	N/A	CA-D-9915-(1)	1	15,030	1977

5. Shut-off valves
   (Brief description of service for which equipment was designed)

6. Design Conditions 2485 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class 1513# (1)
7. Cold Working Pressure 3631 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
body P-9915X-1-(1)	SA182,F316	McWilliams Forge	Mat'l Code RCA & QV
yoke P-9916-31P-(1)	SA105	McWilliams Forge	Mat'l Code PVC

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(1/76)

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
(d)	Other Parts			
	disc 9915-9-(1)2	SA479,Type316	Carpenter	Mat'l Code PY
	bonnet 9915-3-(1)	"	UniversalCyclops	" PL

8. Hydrostatic test 5447 psi.

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
Stress analysis report on file at Kerotest Manufacturing Corp.
Design specifications certified by Thomas F. Wyke (1) Prof. Eng. State NC Reg. No. 482[illegible]
Stress analysis report certified by S. J. Caroleo (1) Prof. Eng. State PA Reg. No. 017144E
(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date November 11 1976 Signed Kerotest (Manufacturer) By S. J. Caroleo
S. J. Caroleo

Certificate of Authorization No. 908 expires 10/28/77

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the equipment described in this Data Report on November 11 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date November 11 1976

E. Senelek (Inspector) Commissions NB 4207 Pa 1636 (National Board, State, Province and No.)

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Division 1

S/O 11.9640.01 P.O. C15736-77

1. Manufactured and certified by Anderson, Greenwood & Co., 3950 Greenbriar, Stafford, TX 77
(name and address of N Certificate Holder)
2. Manufactured for Duke Power Co., P.O. Box 1002, Charlotte, NC 28201
(name and address of Purchaser)
3. Location of installation McGuire Nuclear Site, 13225 Hagers Ferry Rd., Hwy. 73, Huntersville, NC 28078
(name and address)
4. Model No., Series No., or Type CV1B-1030-SSE-N2 Drawing N04-2508-551 Rev. C CRN N/A
5. ASME Code, Section III, Division 1: 1989 (edition) 1990 (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)
7. Material: Body SA182-F316 Bonnet N/A Disk SA693-630-H1100 Bolting SA193-B8M

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
N28369	2202	B148-1	N/A	B153-1
N28370	2203	B148-2	N/A	B153-2

COPY

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. N28369 & N28370

8. Design conditions 230 (pressure) psi 190 (temperature) °F or valve pressure class 300# (1)

9. Cold working pressure 720 psi at 100°F

10. Hydrostatic test 1100 psi. Disk differential test pressure 800 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Daniel G. Gardner P.E. State NC Reg. no. 8971

Design Report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2823 Expires 9-10-93

Date 11-30-92 Name Anderson, Greenwood & Co. (N Certificate Holder) Signed Joseph a. Parks (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TX and employed by C.U.I.C. of Boston, MA. have inspected the pump, or valve, described in this Data Report on 11-30-92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-30-92 Signed [signature] (Authorized Inspector) Commissions Tex 803 NB7582 AN (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
disc 9915-9-(1)Z	SA479,Type316	Carpenter	Mat'l Code PY
bonnet 9915-3-(1)	SA479,Type316	UniversalCyclops	Mat'l Code PL

9. Hydrostatic test 5447 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1974, Addenda N/A (Date), Code Case No. N/A Date N/A

Signed Kerotest (Manufacturer) by J S Horlan

Our ASME Certificate of Authorization No. 908 to use the N (N) (NPV) symbol expires 10/28/77 (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.

Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) Thomas F. Wyke

PE State NC Reg. No. 4870

Stress analysis certified by (1) Robert G. Visalli

PE State PA Reg. No. 19068E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on March 30 1977, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date March 30 1977

Ray Weckel (Inspector)

Commissions NB 6314 (Nat'l Bd., State, Prov. and No.)

SUPPLEMENT SHEET
FORM NPV-1

1. Manufactured by Kerotest Manufacturing Corp. Pittsburgh, PA (NU-62699)

2. Manufactured for Duke Power Company

Manufacturers' Serial No.	Drawing No.	Class	Nat'l Board No.
(2) RCA12-20	CA-D-9915-(1)	1	15,031
(11) RCA12-21	CA-D-9915-(1)	1	15,032
(12) RCA12-23	CA-D-9915-(1)	1	15,033
(13) QV8-2	CA-D-9915-(1)	1	15,034
(14) QV8-3	CA-D-9915-(1)	1	15,035
(15) QV8-4	CA-D-9915-(1)	1	15,036
(16) QV8-5	CA-D-9915-(1)	1	15,037
(17) QV8-6	CA-D-9915-(1)	1	15,038
(18) QV8-8	CA-D-9915-(1)	1	15,039
(19) QV8-9	CA-D-9915-(1)	1	15,040
(20) QV8-11	CA-D-9915-(1)	1	15,041
(21) QV8-17	CA-D-9915-(1)	1	15,042
(22) QV8-18	CA-D-9915-(1)	1	15,043
(23) QV8-20	CA-D-9915-(1)	1	15,044
(24) QV8-21	CA-D-9915-(1)	1	15,045
(25) QV8-25	CA-D-9915-(1)	1	15,046

5. (Service) shut-off valves

V-L 12

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Kerotest Manufacturing Corp. Pittsburgh, PA (NU-62699)
(Name and Address of Manufacturer)
2. Manufactured for Duke Power Company
(Name and Address of Purchaser or Owner)
3. Location of Installation Catawba Nuclear Power Station, Newport, SC
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 1 (inch) Outlet Size 1

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	QVB-1	N/A	CA-D-9915-(1)	1	14,958	1977
(3)	Globe	RCA9-1	N/A	CA-D-9915-(1)	1	14,959	1977
(4)	Globe	RCA9-2	N/A	CA-D-9915-(1)	1	14,960	1977
(5)	Globe	RCA9-3	N/A	CA-D-9915-(1)	1	14,961	1977
(6)	Globe	RCA9-4	N/A	CA-D-9915-(1)	1	14,962	1977
(7)	Globe	RCA9-5	N/A	CA-D-9915-(1)	1	14,963	1977
(8)	Globe	RCA9-6	N/A	CA-D-9915-(1)	1	14,964	1977
(9)	Globe	RCA9-7	N/A	CA-D-9915-(1)	1	14,965	1977
(10)	Globe	RCA9-8	N/A	CA-D-9915-(1)	1	14,966	1977

5. shut-off valves
(Brief description of service for which equipment was designed)

6. Design Conditions 2485 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class 1513# (1)
7. Cold Working Pressure 3631 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
body P-9915X-1-(1)	SA182,F316	McWilliams Forge	Mat'l Code QV & RCA
yoke P-9916-31P-(1)	SA105	McWilliams Forge	Mat'l Code PVC

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
disc 9915-9-(1)Z	SA479,Type316	Carpenter	Mat'l Code PZ
bonnet 9915-3-(1)	SA479,Type316	UniversalCyclops	Mat'l Code PL

9. Hydrostatic test 5447 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I, Edition 1974 Addenda N/A (Date), Code Case No. N/A Date N/A

Signed Kerotest (Manufacturer) by [signature]

Our ASME Certificate of Authorization No. 908 to use the N (N) (NPV) symbol expires 10/28/77 (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.

Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) Thomas F. Wyke

PE State NC Reg. No. 4870

Stress analysis certified by (1) Robert G. Visalli

PE State PA Reg. No. 19068E

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I C of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on March 30 1977, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date March 30 1977

Ray Welch (Inspector) Commissions NB 6314 (Nat'l Bd., State, Prov. and No.)

V-270

SUPPLEMENT SHEET
FORM NPV-1

1. Manufactured by Kerotest Manufacturing Corp. Pittsburgh, PA (NU-62699)

2. Manufactured for Duke Power Company

Manufacturers' Serial No.	Drawing No.	Class	Nat'l Board No.
(2) RCA9-9	CA-D-9915-(1)	1	14,967
(11) RCA9-10	CA-D-9915-(1)	1	14,968
(12) RCA9-11	CA-D-9915-(1)	1	14,969
(13) RCA9-12	CA-D-9915-(1)	1	14,970
(14) RCA9-14	CA-D-9915-(1)	1	14,971
(15) RCA9-15	CA-D-9915-(1)	1	14,972
(16) RCA9-16	CA-D-9915-(1)	1	14,973
(17) RCA9-17	CA-D-9915-(1)	1	14,974
(18) RCA9-18	CA-D-9915-(1)	1	14,975
(19) RCA9-19	CA-D-9915-(1)	1	14,976
(20) RCA9-20	CA-D-9915-(1)	1	14,977
(21) RCA9-21	CA-D-9915-(1)	1	14,978
(22) RCA9-22	CA-D-9915-(1)	1	14,979
(23) RCA9-23	CA-D-9915-(1)	1	14,980
(24) RCA9-24	CA-D-9915-(1)	1	14,981
(25) RCA9-25	CA-D-9915-(1)	1	14,982

5. (Service) shut-off valves

V-120

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Kerotest Manufacturing Corp. 2525 Liberty Ave. Pittsburgh, PA Order No. NU-62699
(Name & Address of Manufacturer)

2. Manufactured for Duke Power Company Order No. C-13961
(Name and Address)

3. Owner Duke Power Company

4. Location of Plant Catawba Nuclear Power Station, Newport, SC

5. ~~Pump or~~ Valve Identification 1" Globe Valve S/N PU18-2, PU18-3, PU18-6, PU18-7, PU18-8, PU18-10, PU18-15, PU18-16, PU18-18, PU18-19, PU18-24, PU18-25, PU34-1, PU34-2, PU34-3, PU34-4, PU34-5, PU34-6, PU34-8, PU34-10, PU34-11, PU34-12, PU34-13, PU34-14, PU34-16
(Brief description of service for which equipment was designed)
service: shut-off valves

(a) Drawing No. CA-D-9915-(1) Sh. 72 of 120 Prepared by C. Tongel

(b) National Board No. 12,533 thru 12,557

6. Design Conditions 2485 (Pressure) psi 650 (Temperature) °F or Pressure Class 1513# (1)

. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1974, Addenda Date N/A, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
body P-9915X-1-(1)	SA182,F316	McWilliams Forge	Mat'l Code PU
yoke P-9916-31P-(1)	SA105	"	" PV

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
disc UP-9915-9-(1)	SA479,Type316	Carpenter	Mat'l Code OJ
bonnet 9915-3-(1)	"	UniversalCyclops	" PL

8. Hydrostatic test 5447 psi.

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
Stress analysis report on file at Kerotest Manufacturing Corp.
Design specifications certified by Thomas F. Wyke (1) Prof. Eng. State NC Reg. No. 4870
Stress analysis report certified by S. J. Caroleo (1) Prof. Eng. State PA Reg. No. 017144E
(1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date December 13 1976 Signed Kerotest (Manufacturer) By S. J. Caroleo S. J. Caroleo

Certificate of Authorization No. 908 expires 10/28/77

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the equipment described in this Data Report on December 13 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date December 13 1976

Ray Welch (Inspector) Commissions NB6314 (National Board, State, Province and No.)

MA 016

Form 26361 (R3-92)

Form NPP - 311A	Rev.0	Page 1 of 2

RECEIVING INSPECTION REPORT

Station: McGuire | MEDB ID. 23533584446N | QA Acpt. No. MC 37529

Vendor: Anerson Greenwood Purchase Order No: C-15736

Item No.	Quantity	Pt. No.	Ht. No.	Lot No.	Serial No.
1	2	1MV-388	—	—	N28369, N28370

Description: Value, check wafer 10" 300# Cl.B

☒ QA Condition 1 ☐ Commercial Grade Item
☐ On-Site Cert. ☐ Salvaged/Repaired

CK'd By	Sample Size/Pass/Fail S	P	F	Duke/Vendor D	V	Inspection, Examination and Testing Performed (specify)
DW	2	2	—	☒	☐	☒ Visual
				☐	☐	☐ Configuration
				☐	☐	☐ Dimensional ☐ App. ☐ Tolerance
				☐	☐	☐ Electrical
				☐	☐	☐ Magnetic
				☐	☐	☐ Weight
				☐	☐	☐ Pressure
				☐	☐	☐ NDE
				☐	☐	☐ Chem. Analysis
				☐	☐	☐ Physical Properties
				☐	☐	☐ Other
DW	2	2	—	☒	☐	☒ Other sealed w/ desicant inside, did not un-wrap, o/d on outside

Procedures/Standards Used
1. NPP-311
2.
3.
4.
5.

Acceptance Procedures/Standards Used
1. NPP-311
2.
3.
4.
5.

Comments:

Test, Examination and Inspection Equipment Used:

Instrument Type	Model Number	Serial Number	Calibration Due

Conditional Release
QA Hold Tag No.

COPY

QA Approved: D.D. Wright Date 12-14-92
(Level II Receiving Inspector)

NUCLEAR DATA PACKAGE DOCUMENT CONTROL INDEX

DATE: November 30, 1992 CUSTOMER: DUKE POWER CO.

AGCO S.O.#: 11.9640.01 P.O.# C15736-77

P.O.ITEM#: 1 ASME SECTION III CLASS: 2 QTY: 2

PLEASE CONTACT JOE PARKS (713) 274-4494
ON ANY MATERIAL / DOCUMENTATION DISCREPENCIES J. Parks 11/30/92

N-PART NUMBER	PART NUMBER	SOURCE	HEAT NUMBER	CODE NUMBER	DOCUMENT / PROCESS	PAGE NO.
REV. C N04.2508.551	VALVE ASSEMBLY CV1B-1030-SSE-N2	AGCO	N/A	N/A	CERTIFICATE OF CONFORMANCE	1
					DUKE POWER'S SUPPLIER QA CERTIFICATION	2
					ASME CODE DATA REPORT NPV-1	3
					ASSEMBLY PRINT	4
					CUSTOMER APPROVAL & DESIGN REPORT N05.9025.352 REV. A	5A, 5B
					SEISMIC REPORT N05.9025.353 REV. NONE	6
					RECOMMENDED SPARE PARTS LIST N05.9042.195 REV. NONE	7
					O.I.M.I. 05.9040.110 REV. A	8
					FLOW CAL. N05.9045.237 REV. NONE	9
					CORRELATION SHEET	10
					Ncr 36249 ACCEPTANCE TEST REPORT	11A, 11B
N04.2468.002	BODY SA182-F316	AGCO	31282	B148	INSPECTION REPORT & NCR #36229	12A, 12B
					WALL THICKNESS VERIFICATION	13A, 13B
MADE FROM N04.2853.002	BODY RING FORGING SA182-F316	COULTER STEEL	31282	B148	MATERIAL CERTIFICATION	14
N06.2122.001	DISC SA182-F316	AGCO	42910-1B	B153	INSPECTION REPORT NCR #36231	15A, 15B
MADE FROM N05.0111.390	DISC 9.180x0.750 THK SA182-F316	ALLIED METALS (G.O. CARLSON)	42910-1B	B153	MATERIAL CERTIFICATION	16A-16E
N04.2469.001	BUSHING HINGE PIN SA564-630-H1100	AGCO	1C2679	A943	INSPECTION REPORT	17
MADE FROM N05.0011.180	HEX BAR 1.375 SA564-630-H1100	SCC CORP (CRUCIBLE)	1C2679	A943	MATERIAL CERTIFICATION	18A-18G
N0[illegible] 234	BOLT w/DRILLED SHANK 3/4-10x3.50 SA193-B8M	AGCO	44375	B142	INSPECTION REPORT	19

COPY

NUCLEAR DATA PACKAGE DOCUMENT CONTROL INDEX

S/O: 07.0468.01

N-PART NUMBER	PART NUMBER	SOURCE	HEAT NUMBER	CODE NUMBER	DOCUMENT / PROCESS	PAGE NO.
MADE FROM N05.2106.238	BOLT FIN HEX 0.750-10x3.50 SA193-B8M	PACER ALLOYS (WALKER BOLT)	44375	B142	MATERIAL CERTIFCATION	20A, 20B
N05.2107.023	NUT HEX HVY SLOTTED 0.750-10 SA194-8M	AGCO	A8478	B146	INSPECTION REPORT	21
MADE FROM N05.2105.045	NUT HEX HVY 0.750-10 SA194-8M	PACER ALLOYS (WALKER BOLT)	A8478	B146	MATERIAL CERTIFICATION	22A, 22B

COPY

26151 (R6-84)

Form 930.1A Rev. 5

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
SUPPLIER QUALITY ASSURANCE CERTIFICATION

S.O. 11.9640.001

PAGE 2

Name of Supplier ANDERSON, GREENWOOD & CO. Date NOVEMBER 16, 1992

Address of Supplier Plant ______ Mill Power Order No. C15736-77

Duke Item or Req. No. 1MV-388

Spec. No. MCS-1205.36-00-0004 Rev. 1

Supplier ID Nos. S/N N28369 & N28370
National Board #2202 & #2203

Description of Component(s) or Material(s) VALVE ASSEMBLY

CV1B-1030-S2-N2

☐ Attached Documentation covers all Components/Materials on Mill Power Order.

☒ Attached Documentation covers partial shipment of Components/Materials on Mill Power Order.

The following listed tests, inspections and reports have been completed as required by the specification:

Physical & Chemical Analysis
Hydro (Test Pressure — PSIG 1100)
☐ Major Repair Records & Charts
☒ Personnel Qualifications on Record

☒ Design Report
☐ Radiographic Test
☐ Penetrant Test
☒ Operating Test
☒ Dimensional Check

☒ Stress Report
☐ Ultrasonic Test
☐ Repair NDE
☐ Performance Curve
☐ Deviation Record # ______

☒ Heat Treatment
☐ Magnetic Particle
☒ Cleanliness
☒ ASME Data Report

1) ______

2) ______

3) ______

This certifies that the listed Component(s) or Material(s) conform to the requirements of the above referenced Duke Power documents including all codes, standards, test requirements and Quality Assurance requirements invoked therein.

JOE PARKS J Parks
Supplier Representative Authorized Signature

Title QA COORDINATOR Date 11/30/92

(See Instructions)

DUKE POWER COMPANY
QA RECORDS APPROVED
[signature]
QA REPRESENTATIVE
DATE 12-14-92

COPY

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

S/O 11.9640.01 P.O. C15736-77 Pg. 1 of 2

1. Manufactured and certified by Anderson, Greenwood & Co., 3950 Greenbriar, Stafford, TX 7(
(name and address of N Certificate Holder)
2. Manufactured for Duke Power Co., P.O. Box 1002, Charlotte, NC 28201
(name and address of Purchaser)
3. Location of installation McGuire Nuclear Site, 13225 Hagers Ferry Rd., Hwy. 73, Huntersville, NC 28078
(name and address)
4. Model No., Series No., or Type CV1B-1030-SSE-N2 Drawing N04-2508-551 Rev. C CRN N/A
5. ASME Code, Section III, Division 1: 1989 (edition) 1990 (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 10 (in.) Outlet size 10 (in.)
7. Material: Body SA182-F316 Bonnet N/A Disk SA693-630-H1100 Bolting SA193-B8M

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
N28369	2202	B148-1	N/A	B153-1
N28370	2203	B148-2	N/A	B153-2

COPY

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. N28369 & N28370

8. Design conditions 230 (pressure) psi 190 (temperature) °F or valve pressure class 300# (1)

9. Cold working pressure 720 psi at 100°F

10. Hydrostatic test 1100 psi. Disk differential test pressure 800 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Daniel G. Gardner P.E. State NC Reg. no. 8971

Design Report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2823 Expires 9-10-93

Date 11-30-92 Name Anderson, Greenwood & Co. (N Certificate Holder) Signed Joseph a. Parks (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TX and employed by C.U.I.C. of Boston, MA have inspected the pump, or valve, described in this Data Report on 11-30-92, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-30-92 Signed [signature] (Authorized Inspector) Commissions Tex 803 NB7582 AN [Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

(1) For manually operated valves only.

COPY

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201

1a. Date 2/4/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
   Address 12700 Hagers Ferry Road, Hunterville NC 28078

2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201
   Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92092896
Repair Organization Job #

3b. NSM or MM # NA

4. Identification of System CF
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, NO Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	HANGER 1-MCA-CF-151	DUKE POWER	NA	NA	SNUBBER "A" SER# 15867	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
B	HANGER 1-MCA-CF-151	DUKE POWER	NA	NA	SNUBBER "B" SER# 15866	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
C	HANGER 1-MCA-CF-151	DUKE POWER	NA	NA	SNUBBER "A" SER# 15115	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
D	HANGER 1-MCA-CF-151	DUKE POWER	NA	NA	SNUBBER "B" SER# 15872	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work REPLACED SNUBBERS

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☑ Exempt ☐

Pressure ______ psig Test Temp. ______ °F

Pressure ______ psig Test Temp. ______ °F

Pressure ______ psig Test Temp. ______ °F

9. Remarks STROKE TESTED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed H.E. Black, PRODUCTION SPECIALIST Date 2/4, 19 93

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 12-7-92 to 2-4-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RO Klein Commissions NB-7728, NC853 A-N-I

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

Date 2-4, 19 93

1

IMAGE EVALUATION TEST TARGET (MT-3)

150mm

6"

1

IMAGE EVALUATION TEST TARGET (MT-3)

150mm

6"

FORM NIS-2 OWNER'S REP[illegible] R REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201

1a. Date 2/1/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
   Address 12700 Hagers Ferry Road, Hunterville NC 28078

2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201
   Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92092900
Repair Organization Job #

3b. NSM or MM # NA

4. Identification of System CF FEEDWATER
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, NO Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	1-MCA-CF-H152	DUKE POWER	NA	NA	SNUBBER (A) SER# 15865	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
B	1-MCA-CF-H152	DUKE POWER	NA	NA	SNUBBER (B) SER# 15864	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
C	1-MCA-CF-H152	DUKE POWER	NA	NA	SNUBBER (A) SER# 15870	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
D	1-MCA-CF-H152	DUKE POWER	NA	NA	SNUBBER (B) SER# 20525	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work REPLACED EXISTING SNUBBERS WITH REBUILT SNUBBERS

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☒

Pressure	______ psig	Test Temp.	______ °F
Pressure	______ psig	Test Temp.	______ °F
Pressure	______ psig	Test Temp.	______ °F

9. Remarks SNUBBERS ARE TESTED WHEN REBUILT, STROKE TESTED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed H.E. Black, PRODUCTION SPEC. Date 2/1, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 12-7-92 to 2-2-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.D. Klein Commissions NB7728, NC853 A-N-I

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

Date 2-2-93, 1993

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 2/4/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92093818
Repair Organization Job #
3b. NSM or MM # NA

4. Identification of System NV
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	HANGER 1-MC-1683-NV-04-R028	DUKE POWER	NA	NA	SNUBBER SER# 20900	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
B	HANGER 1-MC-1683-NV-04-R028	DUKE POWER	NA	NA	SNUBBER SER# 14966	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
C							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
D							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work REPLACED SNUBBER

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ~~☒~~ Exempt ☐

Pressure ______ psig Test Temp. ______ °F
Pressure ______ psig Test Temp. ______ °F
Pressure ______ psig Test Temp. ______ °F

9. Remarks STROKED TESTED

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed H.E. Black PRODUCTION SPECIALIST Date 2/4, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 12-9-92 to 2-4-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.E. Klein Commissions NB 7728, NC 853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 2-4, 1993

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 2/4/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Hunterville NC 28078

2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 92094784
Repair Organization Job #

3b NSM or MM # NA

4. Identification of System NF

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, No Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	Hanger 1MCR-S-NF-101-1-L	Duke Power	NA	NA	Snubber Ser# 20502	NA	☐ Repaired ☐ Replacement ☒ Replaced	☒ No ☐ Yes
B	1MCR-S-NF-101-1-L	Duke Power	NA	NA	Snubber Ser # 14827	NA	☐ Repaired ☒ Replacement ☐ Replaced	☒ No ☐ Yes
C							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
D							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work Replaced Snubber

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☑ Exempt ☐

Pressure ____ psig Test Temp. ____ °F

Pressure ____ psig Test Temp. ____ °F

Pressure ____ psig Test Temp. ____ °F

9. Remarks Stroke Test

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed T.E. Black Production Specialist Date 2-4, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 12-14-92 to 2-4-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

GD Klein Commissions NB 7728, NC 853, A-N-I

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

Date 2-4, 1993

FORM NIS-2 OWNER'S REPOR[illegible] REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 6-2-93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078
2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 93005836-01
Repair Organization Job#
3b. NSM or MM# 12333

4. Identification of System NC
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6.	Identification of Components Repaired or Replaced, and Replacement Components							
	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	IM-NC-PP	DUKE POWER CO	N/A	28	MCFI-INC51	1981	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
B	IM-NC-VA-0038	KEROTEST	CG30-10	263	9J-8	1973	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
C	IM-NC-VA-0040	KEROTEST	QX1-24	18,041	9J-8	1977	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
D	IM-NC-VA-0042	KEROTEST	QX1-17	18,037	9J-8	1977	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
E	IM-NC-VA-0119	KEROTEST	QX1-4	18,132	9J-7	1977	☐ Repaired ☑ Replaced ☐ Replacement	☑ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

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

7. Description of Work PIPING MODIFICATION PER NSM-12333

8. Test Conducted: Hydrostatic ☑ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☐

Pressure 2280 psig Test Temp. 327 °F
Pressure ____ psig Test Temp. ____ °F
Pressure ____ psig Test Temp. ____ °F

9. Remarks VALVES INC38, INC40, INC42, INC119 HAVE BEEN DELETED FROM THE SYSTEM

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Hal K. Sherrill Date 6-10, 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid comission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-3-93 to 6-11-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB7728, NC853, A-N-I
Inspector's Signature National Board, State, Province and Endorsements

Date 6/11, 1993

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201

1a. Date MAY 28 1993
Sheet 1 of 1

2. Plant McGuire Nuclear Station
   Address 12700 Hagers Ferry Road, Hunterville NC 28078

2a. Unit ☒ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201
   Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 93015422
Repair Organization Job #
3b. ~~NSM~~ or MM # 3630

4. Identification of System AUX. (CA) FEEDWATER SYSTEM
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, No Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	CHECK VALVE	ATWOOD & MORRILL	3-14416-08A	102	DPco. TAG NO. 1CA57	1984	☐ Repaired ☐ Replacement ☒ Replaced	☐ No ☐ Yes
B	CHECK VALVE	ATWOOD & MORRILL	2-14413-08A	76	SAME	1984	☐ Repaired ☒ Replacement ☐ Replaced	☐ No ☒ Yes N
C							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
D							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

Form NIS-2 (Back)

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

7. Description of Work REPLACED 4" DAMAGED VALVE

8. Test Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐ Exempt ☐

Pressure	1920 psig	Test Temp. 92 °F
Pressure	psig	Test Temp. °F
Pressure	psig	Test Temp. °F

9. Remarks

(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. D. Talbert Date 5/28, 1993

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2-23-93 to 6-16-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RD Klein Commissions NB 7728 NC853 A-N-I

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

Date 6/16, 1993

*Revised Copy

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Atwood & Morrill Co., Inc. Salem, MA 01970
   (Name and Address of N Certificate Holder)
2. Manufactured for Duke Power Company
   (Name and Address of Purchaser or Owner)
3. Location of installation Cherokee Nuclear Station Gaffney, S.C.
   (Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 4 (inch) Outlet Size 4 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd No.	(g) Year Built
(1)	4" Swing	1-14413-08A	N/A	14413-08-D	2	NB-75	*1984
(2)	Check Valve	and		*Rev. 4		NB-76	
(3)		2-14413-08A*					
(4)							
(5)							
(6)	* Revision - Valves rerated from 1515# SPL to 1680# STD, retested,						
(7)	and restamped.						
(8)	Original NPV-1 signed by H. Evans on 5-13-81						
(9)							
(10)							

5. Inside Containment
   (Brief description of service for which equipment was designed)

6. Design Conditions 2485 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure *4032 psi at 100°F.
*8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr. CF8M	Lebanon Steel Fdry.	S/N 1-14413-08A
RT# B737(Ht.#2651F)			and
RT# B738(Ht.#2651F)			S/N 2-14413-08A
Disc	SA 351 Gr. CF8M	Quaker Alloy	S/N 164-X2015
Ht.# X2015		Casting Co.	and
			S/N 165-X2015
(b) Forgings			
Load Key	SA 182 Gr. F6A	Cann & Saul Steel	S/N 38-841766
Ht.# 841766		Company	and
			S/N 39-841766

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
Cover	SA 240 Gr. 316	Republic Steel	S/N 113-8051653
Ht.# 8051653		Corp. (M.M.)	and
			S/N 114-8051653
		Industrial Service	
		Center (M.S.)	

9. Hydrostatic test *6200 psi. Disk Differential test pressure *4500 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1977, Addenda Summer 1978 (Date) Code Case No. N/A Date N/A

Signed Atwood & Morrill Co., Inc. (N Certificate Holder) by John M. Conroy QA MGR 2/21/84

Our ASME Certificate of Authorization No. N-2606 to use the N (N) symbol expires 6-13-86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Duke Power Company

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) R.E. Miller

PE State So. Carolina Reg. No. 4237

Stress analysis certified by (1) N/A

PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the pump, or valve, described in this Data Report on FEB 21 19 84, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 2/21 19 84

H. Morrill (Inspector) Commissions NB 5962 (Nat'l Bd., State, Prov. and No.)

FORM NIS-2 OWNER'S REPOR . REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 6/2/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 93029381-06
Repair Organization Job#
3b. NSM or MM# 12418

4. Identification of System NV
5. (a) Applicable Construction Code ASMEIII 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Aplicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

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

	Column 1	Column 2	Column 3	Col. 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Idenification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (yes or no)
A	1M-NV-PP	DUKE POWER Co	N/A	37	MCF1-INV50	1981	☐ Repaired ☐ Replaced ☑ Replacement	☑ Yes ☐ No
B							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
C							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
D							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
E							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No
F							☐ Repaired ☐ Replaced ☐ Replacement	☐ Yes ☐ No

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
Address 422 S. Church St., Charlotte NC 28201

1a. Date 6/2/93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
Address 12700 Hagers Ferry Road, Huntersville NC 28078

2a. Unit ■ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
Address 422 S. Church St., Charlotte NC 28201
Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 93033861-01
Repair Organization Job #

3b. NSM or MM # 12418

4. Identification of System NV

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, NO Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	1-MCR-NV-933	DUKE POWER CO	N/A	N/A	1MCR-NV-933 MCSRD-NV-21	1981	☐ Repaired ☐ Replacement ☑ Replaced	☑ No ☐ Yes
B							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
C							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
D							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201

1a. Date 6-4-93
Sheet 1 of 1

2. Plant McGuire Nuclear Station
   Address 12700 Hagers Ferry Road, Hunterville NC 28078

2a. Unit ☑ 1 ☐ 2 ☐ 1 and 2 Shared

3. Work Performed By Duke Power Company
   Address 422 S. Church St., Charlotte NC 28201
   Type Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A

3a. Work Order # 93034212
Repair Organization Job #

3b. NSM or MM # MM-3678

4. Identification of System SA
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, NO Code Cases
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986, no Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Col. 4 National Board Number	Column 5 Other Identification	Col 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	HANGER 1-MCA-SA-H183	DUKE POWER	NA	NA	SNUBBER S/N 09272	NA	☐ Repaired ☐ Replacement ☑ Replaced	☑ No ☐ Yes
B	HANGER 1-MCA-SA-H183	DUKE POWER	NA	NA	GRINNELL LIMIT STOP	NA	☐ Repaired ☑ Replacement ☐ Replaced	☑ No ☐ Yes
C	HANGER 1-MCA-SA-H184	DUKE POWER	NA	NA	SNUBBER S/N 03965	NA	☐ Repaired ☐ Replacement ☑ Replaced	☑ No ☐ Yes
D	HANGER 1-MCA-SA-H184	DUKE POWER	NA	NA	GRINNEL LIMIT STOP	NA	☐ Repaired ☑ Replacement ☐ Replaced	☑ No ☐ Yes
E							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes
F							☐ Repaired ☐ Replacement ☐ Replaced	☐ No ☐ Yes