

FORM NIS-1 (back)

8. Examination Dates 12/24/90 to 3/14/92 9. Inspection Interval from 3/1/84 to 3/1/94
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Attached Report
11. Abstract of Conditions Noted. See Attached Report
12. Abstract of Corrective Measures Recommended and Taken See Attached Report

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

Date 5/20 19 92 signed Duke Power Company By J. B. [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. Carolina and employed by * The HSBI&I Co. of Hartford Conn have inspected the components described in this Owners' Data Report during the period 12-24-90 to 3-14-92 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 a loss of any kind arising from or connected with this inspection.

Date 5/20 19 92
R. D. Klein Commissions NC 853
Inspector's Signature National Board, State, Province and No.

* The Hartford Steam Boiler Inspection & Insurance Company
200 Ashford Center North
Suite 300
Atlanta, Georgia 30338

INSERVICE INSPECTION REPORT
UNIT 2 MCGUIRE 1992 REFUELING
OUTAGE 7

Location: Hwy 73, COWANS FORD, NORTH CAROLINA 28216

NATIONAL BOARD NO. 84

COMMERCIAL SERVICE DATE: MARCH 1, 1984

Owner: Duke Power Company
422 S. Church St.
Charlotte, N.C. 28201

Revision 0

Prepared By: AC Krige, Jr Date 5-8-92
Reviewed By: J. Underwood Date 5-19-92
Approved By: J. Barbour Date 5/20/92

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TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Revision</u>
1.	Summary of Inservice Inspection	0
2.	Status of Required Inspections	0
3.	Final Inservice Inspection Plan for Outage 7	0
4.	Results of Inspections Performed During Outage 7	0
5.	Class 1 Inspection Results	0
6.	Class 2 Inspection Results	0
7.	Augmented Inspection Results	0
8.	Personnel, Equipment, and Material Certifications	0
9.	Problem Investigation Reports	0
10.	Reference Documents	0
11.	Class 1 and 2 Repairs and Replacements	0

1.0 Summary of Inservice Inspections

This report describes the Inservice Inspection of Duke Power Company's McGuire Nuclear Station Unit 2 during the 1992 Refueling Outage (also referred to as Outage 7), which is the first refueling outage in the Third Inspection Period of the First Ten Year Interval.

Included in this report are the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination, and corrective action taken when unacceptable conditions were found. In addition, there is a section included for repairs and replacements required since December 24, 1990.

1.1 Class 1 Inspection

The Class 1 Inservice Inspection included examinations on the Reactor Vessel CRDM Tube to Upper Head Welds, Incore Instrument Tube to Lower Head Welds, Nozzle to Safe End Butt Welds and Closure Head Nuts, Studs, Washers and CRD Housing Weld.

Examinations were performed on the Pressurizer Lower Head to Shell Circumferential Weld and Lower Head to Shell Longitudinal Weld. Also, the Pressurizer Support Skirt to Lower Head Weld and Heater Penetration Welds in Lower Head also received examinations.

Examinations were performed on Steam Generator 2B Channel Head to Tube Sheet Weld, Steam Generator 2D Primary Inlet and Outlet Nozzle Inside Radius Sections, Steam Generator 2B Inlet and Outlet Nozzle, Steam Generator 2C and 2D Outlet Nozzle to Safe End Butt Welds. In addition, examinations were performed on Steam Generators 2A, 2B, 2C and 2D Manway Bolting.

Dissimilar Metal Butt Welds in the Reactor Coolant System, Reactor Coolant Pump 2B Main Flange Bolts, Piping Main Flange Bolting in the Chemical and Volume Control System and Reactor Coolant and Safety Injection System Valve Bolting received examinations.

Piping Welds in the Reactor Coolant, Residual Heat Removal and Safety Injection Systems and the Internal Surfaces of Valves 2NC-1, 2NC-2, 2NC-3 and 2ND-2A.C received examinations.

Visual examinations were performed on the Class 1 Pressure Boundary during System Leakage and Hydrostatic Tests. Also, visual examinations were performed on the Class 1 Component Supports of the Reactor Coolant, Residual Heat Removal, Safety Injection, Chemical and Volume Control Systems and on Pressurizer Support Skirt, Pressurizer Lower Support Frame, Steam Generator Support Columns and Steam Generator Upper Lateral and Snubbers.

The Inconel 600 tubing in Steam Generators 2A, 2B, 2C and 2D was inspected by eddy current during Outage 7. The results of the inspections are shown in Section 5 of this report. A detailed description of the McGuire 2 Refueling Outage 7 eddy current inspection

is provided in the January 1992 Eddy Current Examination Report on file in the Corporate Office in Charlotte, North Carolina.

Reportable indications were found on the Class 1 Inspections shown in this section. Inspection and evaluation data for each reportable indication found on Class 1 Inspections is included in Section 5 of this report.

A detailed description of each inspection is found in the final Inservice Inspection Plan in Section 3 of this report. Results of each examination are found in Section 4.

1.2 Class 2 Inspection

The Class 2 Inspections included examinations on Steam Generator 2C Lower Shell to Transition Cone, Transition Cone to Upper Shell and Upper Shell to Head Welds and piping integrally-welded attachments of the Main Feedwater and Main Steam Systems.

Examinations were performed on circumferential butt welds in the Auxiliary Feedwater, Safety Injection, Nuclear Service Water, Main Steam Supply to Auxiliary Equipment, Main Steam, Containment Air Release and Addition, Main Feedwater and Residual Heat Removal Systems. Also, a longitudinal weld of the Containment Air Release and Addition System was examined.

Visual examinations were performed on Class 2 Component Supports of the Auxiliary Feedwater, Containment Air Release and Addition, Main Feedwater, Main Steam Vent to Atmosphere, Main Steam Supply to Auxiliary Equipment, Safety Injection and Main Steam Systems and on Safety Injection Accumulator Tank A Support Skirt.

A detailed description of each inspection is found in the final Inservice Inspection Plan in Section 3 of this report. Results of each examination are found in Section 4.

1.3 Augmented Inspection

Augmented inspections were performed on Reactor Coolant Pump 2A, 2B and 2D Flywheels, Steam Generator 2B Feedwater Modification, Thermal Stress Piping and on Safety Injection Accumulator Nozzles. A detailed description of each examination is found in the final Inservice Inspection Plan in Section 3 of this report. Results of each examination are found in Section 4.

1.4 Alternate Examinations

No alternate examinations were performed during Outage 7.

1.5 Identification Numbers

Owner: Duke Power Company, 422 S. Church St., Charlotte, N.C. 28201
Plant: McGuire Nuclear Station, Highway 73, Cowans Ford, N.C. 28216

1.5 Identification Numbers

Owner: Duke Power Company, 422 S. Church St., Charlotte, N.C. 28201
 Plant: McGuire Nuclear Station, Highway 73, Cowans Ford, N.C. 28216

Plant Unit: 2
 Owner Certificate of Authorization: N/A
 Commercial Service Date: 3-1-84

<u>Item</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Reactor Vessel	Rotterdam	30664	NC-201819	--
Pressurizer	Westinghouse	1491	NC-201818	W10285
Steam Generator 2A	Westinghouse	1481	NC-201307	68-112
Steam Generator 2B	Westinghouse	1482	NC-201308	68-113
Steam Generator 2C	Westinghouse	1483	NC-201309	68-114
Steam Generator 2D	Westinghouse	1484	NC-201310	68-115
Main Steam Supply to Auxiliary Equipment System	Duke Power Co.	SA	N/A	62
Containment Air Release and Addition System	Duke Power Co.	VQ	N/A	56
Main Steam System	Duke Power Co.	SK	N/A	70
Main Steam Vent to Atmosphere System	Duke Power Co.	SV	N/A	67
Reactor Coolant System	Duke Power Co.	NC	N/A	82
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	76
Refueling Water System	Duke Power Co.	FW	N/A	4
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	73
Residual Heat Removal System	Duke Power Co.	ND	N/A	63

<u>Item</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Nuclear Service Water System	Duke Power Co.	RN	N/A	60
Chemical and Volume Control System	Duke Power Co.	NV	N/A	80
Component Cooling System	Duke Power Co.	KC	N/A	78
Main Feedwater System	Duke Power Co.	CF	N/A	61
Containment Spray System	Duke Power Co.	NS	N/A	69
Containment Ventilation Cooling Water System	Duke Power Co.	RV	N/A	72
Safety Injection System	Duke Power Co.	NI	N/A	83
Safety Injection Accumulator Tank 2A	Delta Southern Co.	41618-72-1	NC-201813	3034
Safety Injection Accumulator Tank 2B	Delta Southern Co.	41618-72-2	NC-201814	3035
Safety Injection Accumulator Tank 2C	Delta Southern Co.	41618-72-3	NC-201815	3036
Safety Injection Accumulator Tank 2D	Delta Southern Co.	41618-72-4	NC-201816	3037
Unit 2	Duke Power Co.	N/A	N/A	84

1.6 Authorized Nuclear Inservice Inspector(s)

Name(s): R. D. Klein

R. D. Klein 5-20-92

Employer: The Hartford Steam Boiler
Inspection & Insurance Company

Business Address: The Hartford Steam Boiler Inspection
& Insurance Company
200 Ashford Center North
Suite 300
Atlanta, GA 30338

PROGRAM: NISIR-8-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 CLASS 1 REPORTABLE ITEMS OUTAGE 7

PAGE 8
 DATE 04/30/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B07.020.000	***PRESSURIZER	BOLTS,STUDS,AND NUTS *****	_____	***	*****	****	___	****	***** *****
B07.030.000	*****STEAM	GENERATOR***** BOLTS,STUDS,AND NUTS	_____	***	*****	****	___	****	***** *****
B07.030.005	2SGC-MW-WX	MCM 1201.01-3	_____	VT1	QAL-13	CS	01.88	----	SG2C MANNAY BOLTING (16 BOLTS) PRIMARY MANNAY IN W-X QUADRANT PIR # 2-M92-0066 PIR # 2-M92-0066
B07.030.006	2SGC-MW-ZN	MCM 1201.01-3	_____	VT1	QAL-13	CS	01.88	----	SG2C MANNAY BOLTING (16 BOLTS) PRIMARY MANNAY IN Z-W QUADRANT PIR # 2-M92-0066 PIR # 2-M92-0066
B07.050.000	CLASS 1 PIPING	BOLTS,STUDS,AND NUTS *****	_____	***	*****	****	___	****	***** *****
B07.060.000	*CLASS 1 PUMPS	BOLTS,STUDS,AND NUTS *****	_____	***	*****	****	___	****	***** *****
B07.070.000	CLASS 1 VALVES	BOLTS,STUDS,AND NUTS *****	_____	***	*****	****	___	****	***** *****
B07.080.000	**CRD HOUSINGS	BOLTS,STUDS,AND NUTS *****	_____	***	*****	****	___	****	INSPECT IF DISASSEMBLED LIST CRD NUMBER INSPECTED

PROGRAM: NISI 03-AISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B16

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 CLASS 1 REPORTABLE ITEMS OUTAGE 7

PAGE 17
 DATE 04/30/92

ITEM NUMBER	ITEM	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
B16.020.001	*****SGEAM	GENERATOR TUBING**** *****		***	*****	*****		*****	*****
B16.021.000	*****SGA STEAM	GENERATOR TUBING**** *****		***	*****	*****		*****	*****
B16.021.001	2SGA-TUBES	MCM-2201.01-187		ET	ISI-424	IN	00.75 00.043	50285	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2
B16.022.000	*****SGB STEAM	GENERATOR TUBING**** *****		***	*****	*****		*****	*****
B16.022.001	2SGB-TUBES	MCM-2201.01-187		ET	ISI-424	IN	00.75 00.043	50285	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2
B16.023.000	*****SGC STEAM	GENERATOR TUBING**** *****		***	*****	*****		*****	*****
B16.023.001	2SGC-TUBES	MCM-2201.01-187		ET	ISI-424	IN	00.75 00.043	50379	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2
B16.024.000	*****SGB STEAM	GENERATOR TUBING**** *****		***	*****	*****		*****	*****

PROGRAM: NTSIA66-QAISI02
FILE: C097135
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B16

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 CLASS 1 REPORTABLE ITEMS OUTAGE 7

PAGE 18
DATE 04/30/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REG. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK.	CALIB. BLOCK	COMMENTS
B16.024.001	2560-TURES	MCH-2201.01-187		ET ISI-424 IN		00.75	50379	SELECT CALIBRATION STANDARD PER VOL. 1 SECT. 10.2

2.0 Status of Required Inspections

The completion status of inspections required by the 1980 ASME Section XI Code, including Addenda through Winter 1980, is summarized in this section. The requirements are listed by the ASME Section XI examination category as defined in Table IWB-2500-1 for Class 1 Inspections and in IWC-2500-1 for Class 2 Inspections. Augmented inspections are also included.

Class 1 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	14 Welds	2.5 Welds	17.85%	Yes
B-B	Pressure Retaining Welds in Vessels other than Reactor Vessels	8 Welds	8 Welds	100%	No
B-D	Full Penetration Welds of Nozzles in Vessels	36 Inspections	26 Inspections	72.22%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	55 Welds	55 Welds	100%	No
B-F	Pressure Retaining Dissimilar Metal Welds	46 Welds	38.666 Welds	84.05%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch in Diameter	370 Items	325 Items	87.83%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	53 *Connections	53 Connections	100%	No
B-H	Integral Attachments for Vessels	12 Attachments	7 Attachments	58.33%	No

*Total connections include CRDMs that are disassembled.

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
B-J	Pressure Retaining Welds in Piping	189 Welds	151 Welds	79.89%	No
B-K-1	Integral Attach- ments for Piping, Pumps, and Valves	None	N/A	N/A	N/A
B-L-1	Pressure Retaining Welds in Pump Casings	None	N/A	N/A	N/A
B-L-2	Pump Casings	None	N/A	N/A	N/A
B-M-1	Pressure Retaining Welds in Valve Bodies	None	N/A	N/A	N/A
B-M-2	Valve Body > 4 In. Nominal Pipe Size	6 Valves	6 Valves	100%	Yes
B-N-1	Interior of Reactor Vessel	3 Items	2 Items	66.66%	No
B-N-2	Integrally-Welded Core Support Struc- tures and Interior Attachments to Reactor Vessels	None	N/A	N/A	N/A
B-N-3	Removable Core Support Structures	1 Item	.50 Item	50%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	3 Housings	3 Housings	100%	Yes
B-P	All Pressure Retaining Components				No
	System Leakage Test	147 Components	127 Components	86.39%	
	System Hydrostatic Test	21 Components	16 Components	76.19%	
B-Q	Steam Generator Tubing	100% of Technical Specifications Met			N/A
F1.01	Class 1 Component Supports	196 Supports	194 Supports	98.97%	No

Class 2 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
C-A	Pressure Retaining Welds in Pressure Vessels	9 Welds	9 Welds	100%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	6 Welds	4 Welds	66.66%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	21 Attachments	21 Attachments	100%	No
C-D	Pressure Retaining Bolting Exceeding 2 Inches in Diameter	None	N/A	N/A	N/A
C-F	Pressure Retaining Welds in Piping	306 Welds	233 Welds	76.14%	No
C-G	Pressure Retaining Welds in Pumps and Valves	8 Welds	4 Welds	50%	No
C-H	All Pressure Retaining Components				No
	System or Component Functional Test	43 Components	28 Components	65.11%	
	System Hydrostatic Test	68 Components	17 Components	25%	
F1.02	Class 2 Component Supports	478 Supports	401 Supports	83.89%	No

Augmented Inspections

<u>Description</u>	<u>Percentage Complete</u>
Reactor Coolant Pump Flywheels	100% of Technical Specifications Met
Steam Generator Tubes on Preheater Saction	100% of requirements
Pipe Rupture Protection	100% of requirements for Outages 3, 4, 5, 6 and 7
Steam Generator Feedwater Modification	100% of requirements for Outages 1, 2, 3, 4, 5, 6, & 7
Thermal Stress Piping	100% of requirements
Safety Injection Accumulator Nozzles	100% of requirements

3.0 Final Inservice Inspection Plan for Outage 7

The final ISI plan presented in this section lists all examinations credited for Outage 7 at McGuire Unit 2. This includes ASME Section XI, Class 1 and 2 and augmented inspections required by the plant technical specifications, NRC Bulletins and Problem Investigation Reports.

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

Item Number	=	ASME Section XI, Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWD-2500-1 (Class 3), IWF-2500-1 (Class 1, Class 2, and Class 3) and Augmented Requirements
ID Number	=	Unique Identification Number
Drawing Number	=	Location and/or Detail Drawing
Locs.	=	Location
Insp. Req.	=	Examination Technique - Magnetic Particle, Dye Penetrant, etc.
Proc. Numbers	=	Examination Procedures
Material Type/Grade	=	General Description of Material
Diam./Thick	=	Diameter/Thickness
Calib. Block	=	Calibration Block
Comments	=	General and/or Detail Description

PROGRAM: NISIP08-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B01

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 1
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B01.000.000	REACTOR VESSEL	WELDS***** *****	_____	***	*****	****	___	****	***** *****
B01.010.000	REACTOR VESSEL	SHELL WELDS***** *****	_____	***	*****	****	___	****	***** *****
B01.011.000	REACTOR VESSEL	CIRCUMFERENTIAL**** SHELL WELDS*****	_____	***	*****	****	___	****	***** *****
B01.012.000	REACTOR VESSEL	LONGITUDINAL***** SHELL WELDS*****	_____	***	*****	****	___	****	***** *****
B01.020.000	REACTOR VESSEL	HEAD WELDS***** *****	_____	***	*****	****	___	****	***** *****
B01.021.000	REACTOR VESSEL	HEAD WELDS***** CIRCUMFERENTIAL*****	_____	***	*****	****	___	****	***** *****
B01.022.000	REACTOR VESSEL	HEAD WELDS***** MERIDIONAL*****	_____	***	*****	****	___	****	***** *****
B01.030.000	REACTOR VESSEL	SHELL TO FLANGE WELD *****	_____	***	*****	****	___	****	***** *****

PROGRAM: NISIR-0-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B01

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 2
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
B01.040.000	REACTOR VESSEL	HEAD TO FLANG		*** *****	*****		*****	***** ***** *****

PROGRAM: NISTR06-QAISI02
 FILE: C007133
 PLANT: MCQUIRE UNIT 2
 KEY: ITEM NUMBER B02

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 3
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB. BLOCK	COMMENTS
B02.000.000	***PRESSURIZER	AND STEAM GENERATOR VESSEL WELDS*****		*** *****	*****		*****	*****
B02.010.000	***PRESSURIZER	SHELL TO HEAD WELDS *****		*** *****	*****		*****	*****
B02.011.000	***PRESSURIZER	SHELL TO HEAD WELDS CIRCUMFERENTIAL*****		*** *****	*****		*****	*****
B02.011.001	2PZR-1	HCM 2201.01-15 HCM 2201.01-16		UT NDE-620 NDE-640	CS	91.50 05.750	50337	PZR LOWER HEAD TO SHELL CIRCUM WELD
B02.012.000	***PRESSURIZER	WELDS ***** LONGITUDINAL*****		*** *****	*****		*****	*****
B02.012.001	2PZR-6	HCM 2201.01-5 HCM 2201.01-16		UT NDE-620 NDE-640	CS	91.50 05.750	50337	PZR LOWER HEAD TO SHELL (LONGITUDINAL WELD)
B02.040.000	*****SY. Y	GENERATORS TUBESHEET TO HEAD WELDS*****		*** *****	*****		*****	*****
B02.040.002	25GB-01-02	HCM 2201.01-480 HCM 2201.01-12		UT NDE-620 NDE-640	CS	05.160	50301	STEAM GENERATOR 2B CHANNEL HEAD TO TUBE SHEET P1 TO P2 RESCH. OUT2 TO OUT7

PROGRAM: NTSIP02-QA15102
 FILE: C007133
 PLANT: PFWIRE UNIT 2
 KEY: I. J NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING / 7

PAGE 4
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REG. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
B03.090.000	REACTOR VESSEL	NOZZLE TO VESSEL WELDS		***	*****	---	*****	
B03.100.000	REACTOR VESSEL	NOZZLE INSIDE RADIUS SECTION		***	*****	---	*****	
B03.110.000	***PRESSURIZER	NOZZLE TO VESSEL WELDS		***	*****	---	*****	
B03.120.000	***PRESSURIZER	NOZZLE INSIDE RADIUS SECTION		***	*****	---	*****	
B03.140.000	*****STEAM	GENERATORS NOZZLE TO INSIDE RADIUS		***	*****	---	*****	
B03.140.007	2SGD-INLET	MCM 2201.01-014 MCM 1201.01-480		UT	NDE-680 CS	39.00 05.160	50302	STEAM GENERATOR 2D PRIMARY INLET NOZZLE RADIOUSED SECTION
B03.140.008	2SGD-OUTLET	MCM 2201.01-014 MCM 1201.01-480		UT	NDE-680 CS	39.00 05.160	50302	STEAM GENERATOR 2D PRIMARY OUTLET NOZZLE RADIOUSED SECTION

PROGRAM: VSIRC-QAISI02
 FILE: C067133
 PLANT: MCGUIRE UNIT 2
 KEY: ITCM NUMBER B04

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 5
 DATE 05/08/92

ITEM NUMBER ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAH./ THICK BLOCK	COMMENTS
B04.010.000	REACTOR VESSEL					
B04.012.000	*****PARTIAL					
B04.012.001	2RPV-CRDM		VT2 QAL-15	IN	04.00 00.642	78 WELDS CRDM TUBE TO RPV UPPER HEAD INSPECT ONCE A PERIOD
B04.013.000	*****PARTIAL					
B04.013.001	2RPV-INCORE		VT2 QAL-15	IN	01.50 00.450	58 WELDS INCORE INSTRUMENT TUBES TO RPV LOWER HEAD INSPECT ONCE A PERIOD
B04.020.000	***PRESSURIZER					
B04.020.001	2PZR-HEATER		VT2 QAL-15	SS	01.25 00.172	78 HEATER PENETRATIONS IN LOWER HEAD INSPECT ONCE A PERIOD

PROGRAM: MISROING-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 6
 DATE 05/08/92

ITEM NUMBER	ID	LOC	DRAWING NUMBERS	LOCS	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B05.010.000		REACTOR VESSEL							NOMINAL PIPE SIZE > 4 INCH
B05.010.001B	2RPV-M11-SE		MCM 2201.01-0009 MCM 2201.01-19		PT NDE-25	CS/SS	27.50 02.281		
B05.010.002B	2RPV-M12-SE		MCM 2201.01-0009 MCM 2201.01-19		PT NDE-35	CS/SS	27.50 02.281		
B05.010.003B	2RPV-M13-SE		MCM 2201.01-0009 MCM 2201.01-19		PT NDE-35	CS/SS	27.50 02.281		
B05.010.004B	2RPV-M14-SE		MCM 2201.01-0009 MCM 2201.01-19		PT NDE-35	CS/SS	27.50 02.281		
B05.020.000		***PRESSURIZER							NOMINAL PIPE SIZE > 4 INCH
B05.030.000		*****STEAM							NOMINAL PIPE SIZE > 4 INCH
B05.030.003	2SGB-INLET-SE		MCM 2201.01-1B/4 MCM 1201.01-3/2		UT NDE-610	CS/SS	31.00 02.500	5C.14	SG2B INLET NOZZLE SAFE END RESCH FROM BUTT TO BUTT

PROGRAM: NISIRUM-QAISI02
 FILE: CG07133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 7
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B05.030.003A	2SGB-INLET-SE	MCM 2201.01-18/4 MCM 1201.01-3/2	_____	PT NDE-35	CS/SS	31.00 02.500	-----	SG2B INLET NOZZLE SAFE END RESCH FROM OUT TO OUT7
B05.030.004	2SGB-OUTLET-SE	MCM 2201.01-18/5 MCM 1201.01-3/2	_____	UT NDE-610	CS/SS	31.00 02.500	50214	SG2B OUTLET NOZZLE SAFE END RESCH FROM OUT2 TO OUT7
B05.030.004A	2SGB-OUTLET-SE	MCM 2201.01-18/5 MCM 1201.01-3/2	_____	PT NDE-35	CS/SS	31.00 02.500	-----	SG2B OUTLET NOZZLE SAFE END RESCH FROM OUT2 TO OUT7
B05.030.006	2SGC-OUTLET-SE	MCM 2201.01-18/8 MCM 1201.01-3/2	_____	UT NDE-610	CS/SS	31.00 02.500	50214	SG2C OUTLET NOZZLE SAFE END
B05.030.006A	2SGC-OUTLET-SE	MCM 2201.01-18/8 MCM 1201.01-3/2	_____	PT NDE-35	CS/SS	31.00 02.500	-----	SG2C OUTLET NOZZLE SAFE END
B05.030.008	2SGD-OUTLET-SE	MCM 2201.01-18/11 MCM 1201.01-3/2	_____	UT NDE-610	CS/SS	31.00 02.500	50214	SG2D OUTLET NOZZLE SAFE END
B05.030.008A	2SGD-OUTLET-SE	MCM 2201.01-18/11 MCM 1201.01-3/2	_____	PT NDE-35	CS/SS	31.00 02.500	-----	SG2D OUTLET NOZZLE SAFE END
B05.050.000	CLASS 1 PIPING	DISSIMILAR METAL**** BUTT WELDS*****	_____	*** *****	*****	---	*****	NOMINAL PIPE SIZE > 4 INCH**** *****

PROGRAM: NISIRU QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 8
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
B05.050.003B	2NC2F-1-3	MCM 2201.01-18/2 MC 2676-4		PT NDE-35	CS/SS	31.00 02.500		TO BE DONE WITH B05.030.002A
B05.050.004B	2NC2F-1-8	MCM 2201.01-18/3 MCM 2201.01-0009		PT NDE-35	CS/SS	27.50 02.281		TO BE DONE WITH B05.010.001B
B05.050.008B	2NC2F-2-6	MCM 2201.01-18/6 MCM 2201.01-09		PT NDE-35	CS/SS	27.50 02.500		TO BE DONE WITH B05.010.002B
B05.050.011A	2NC2F-3-3	MCM 2201.01-18/8 MC 2676-4		UT NDE-610	CS/SS	31.00 02.500	50214	UT FROM PIPE SIDE B05.050.006
B05.050.011B	2NC2F-3-3	MCM 2201.01-18/8 MC 2676-4		PT NDE-35	CS/SS	31.00 02.500		TO BE DONE WITH B05.030.006A
B05.050.012B	2NC2F-3-8	MCM 2201.01-18/9 MCM 2201.01-09		PT NDE-35	CS/SS	27.50 02.281		TO BE DONE WITH B05.010.003B
B05.050.015A	2NC2F-4-3	MCM 2201.01-18/11 MC 2676-4		UT NDE-610	CS/SS	31.00 02.500	50214	UT FROM PIPE SIDE B05.030.008
B05.050.015B	2NC2F-4-3	MCM 2201.01-18/11 MC 2676-4		PT NDE-35	CS/SS	31.00 02.500		TO BE DONE WITH B05.030.008A

PROGRAM: NISIR QAISI02
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 9
DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B05.050.016B	2NC2F-4-8	MCM 2201.01-18/12 MCM 2201.01-09	_____	PT	NDE-35	CS/SS	27.50 02.300	-----	TO BE DONE WITH B05.010.004B

PROGRAM: NISI-88-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 10
 DATE 05/08/92

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*** *****		***	*****	*****		*****	*****
B06.010.037	2RPV-664-32-37	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT
B06.010.038	2RPV-664-31-38	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT
B06.010.039	2RPV-664-32-39	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT
B06.010.040	2RPV-664-32-40	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT
B06.010.041	2RPV-664-32-41	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT
B06.010.042	2RPV-664-32-42	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT
B06.010.043	2RPV-664-32-43	MCM 2201.01-21 RDM 30738-1544		MT	NDE-25	CS	10.54 01.770	----	NUT

PROGRAM: NISIRONB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 11
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B06.010.044	2RPV-664-32-44	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.045	2RPV-664-32-45	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.046	2RPV-664-32-46	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.047	2RPV-664-32-47	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.048	2RPV-664-32-48	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.049	2RPV-664-32-49	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.050	2RPV-664-32-50	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.051	2RPV-664-32-51	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	10.54 01.770	-----	NUT

PROGRAM: NISIN08-CAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 12
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B06.010.052	2RPV-664-32-52	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.053	2RPV-664-32-53	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	10.54 01.770	-----	NUT
B06.010.054	2RPV-664-32-54	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	10.54 01.770	-----	NUT
B06.020.000	REACTOR VESSEL	CLOSURE STUDS***** *****	_____	***	*****	*****	-----	*****	IN PLACE***** *****
B06.030.000	REACTOR VESSEL	CLOSURE STUDS***** *****	_____	***	*****	*****	-----	*****	WHEN REMOVED***** *****
B06.030.037	2RPV-664-31-37	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.037A	2RPV-664-31-37	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.038	2RPV-664-31-38	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD

PROGRAM: NISIRUNB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 13
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B06.030.038A	2RPV-664-31-38	MCM 2201.01-21 RDM 30738-1544	_____	MT NDE-25	CS	07.00 64.560	-----	STUD
B06.030.039	2RPV-664-31-39	MCM 2201.01-21 RDM 30738-1544	_____	UT NDE-44	CS	07.00 64.560	50257	STUD
B06.030.039A	2RPV-664-31-39	MCM 2201.01-21 RDM 30738-1544	_____	MT NDE-25	CS	07.00 64.560	-----	STUD
B06.030.040	2RPV-664-31-40	MCM 2201.01-21 RDM 30738-1544	_____	UT NDE-44	CS	07.00 64.560	50257	STUD
B06.030.040A	2RPV-664-31-40	MCM 2201.01-21 RDM 30738-1544	_____	MT NDE-25	CS	07.00 64.560	-----	STUD
B06.030.041	2RPV-664-31-41	MCM 2201.01-21 RDM 30738-1544	_____	UT NDE-44	CS	07.00 64.560	50257	STUD
B06.030.041A	2RPV-664-31-41	MCM 2201.01-21 RDM 30738-1544	_____	MT NDE-25	CS	07.00 64.560	-----	STUD
B06.030.042	2RPV-664-31-42	MCM 2201.01-21 RDM 30738-1544	_____	UT NDE-44	CS	07.00 64.560	50257	STUD

PROGRAM: NISIP-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 14
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
B06.030.042A	2RPV-664-31-42	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.043	2RPV-664-31-43	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.043A	2RPV-664-31-43	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.044	2RPV-664-31-44	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.044A	2RPV-664-31-44	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.045	2RPV-664-31-45	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.045A	2RPV-664-31-45	MCM 2201.01-21 RDM 30738-1544	_____	MT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.046	2RPV-664-31-46	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD

PROGRAM: NISWONB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC'S.	INSP. REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL THICK	DIAM. / CALIBR BLOCK	COMMENTS
B06.030.046A	2RPV-664-31-46	MCM 2201.01-21 RDH 30738-1544	=====	MT NDE-25	CS	07.00 64.560	STUD	=====
B06.030.047	2RPV-664-31-47	MCM 2201.01-21 RDH 30738-1544	=====	UT NDE-44	CS	07.00 64.560	STUD	=====
B06.030.047A	2RPV-664-31-47	MCM 2201.01-21 RDH 30738-1544	=====	MT NDE-25	CS	07.00 64.560	STUD	=====
B06.030.048	2RPV-664-31-48	MCM 2201.01-21 RDH 30738-1544	=====	UT NDE-44	CS	07.00 64.560	STUD	=====
B06.030.048A	2RPV-664-31-48	MCM 2201.01-21 RDH 30738-1544	=====	MT NDE-25	CS	07.00 64.560	STUD	=====
B06.030.049	2RPV-664-31-49	MCM 2201.01-21 RDH 30738-1544	=====	UT NDE-44	CS	07.00 64.560	STUD	=====
B06.030.049A	2RPV-664-31-49	MCM 2201.01-21 RDH 30738-1544	=====	MT NDE-25	CS	07.00 64.560	STUD	=====
B06.030.050	2RPV-664-31-50	MCM 2201.01-21 RDH 30738-1544	=====	UT NDE-44	CS	07.00 64.560	STUD	=====

PROGRAM: NIS100B-7AISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 16
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B06.030.050A	2RPV-664-31-50	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.051	2RPV-664-31-51	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.051A	2RPV-664-31-51	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.052	2RPV-664-31-52	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.052A	2RPV-664-31-52	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.053	2RPV-664-31-53	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD
B06.030.053A	2RPV-664-31-53	MCM 2201.01-21 RDM 30738-1544	_____	HT	NDE-25	CS	07.00 64.560	-----	STUD
B06.030.054	2RPV-664-31-54	MCM 2201.01-21 RDM 30738-1544	_____	UT	NDE-44	CS	07.00 64.560	50257	STUD

PROGRAM: NISIRONB-QAISI07
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 17
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
B06.030.054A	2RPV-664-31-54	MCM 2201.01-21 RDM 30738-1544	_____	MT NDE-25	CS	07.00 64.560	-----	STUD
B06.040.000	REACTOR VESSEL	THREADS IN FLANGE*** *****	_____	*** *****	****	_____	-----	*****
B06.050.000	REACTOR VESSEL	CLOSURE WASHERS AND* BUSHINGS*****	_____	*** *****	****	_____	-----	*****
B06.050.037	2RPV-664-33-37	MCM 2201.01-21 RDM 30738-1544	_____	VT1 QAL-13	CS	10.56	-----	WASHERS
B06.050.038	2RPV-664-33-38	MCM 2201.01-21 RDM 30738-1544	_____	VT1 QAL-13	CS	10.56	-----	WASHERS
B06.050.039	2RPV-664-33-39	MCM 2201.01-21 RDM 30738-1544	_____	VT1 QAL-13	CS	10.56	-----	WASHERS
B06.050.040	2RPV-664-33-40	MCM 2201.01-21 RDM 30738-1544	_____	VT1 QAL-13	CS	10.56	-----	WASHERS
B06.050.041	2RPV-664-33-41	MCM 2201.01-21 RDM 30738-1544	_____	VT1 QAL-13	CS	10.56	-----	WASHERS

PROGRAM: NISTQB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 1
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B06.050.042	2RPV-664-33-42	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.043	2RPV-664-33-43	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.044	2RPV-664-33-44	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.045	2RPV-664-33-45	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.046	2RPV-664-33-46	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.047	2RPV-664-33-47	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.048	2RPV-664-33-48	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.049	2RPV-664-33-49	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS

PROGRAM: NISINQB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 19
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
B06.050.050	2RPV-664-33-50	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.051	2RPV-664-33-51	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
Bu6.050.052	2RPV-664-33-52	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.053	2RPV-664-33-53	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.050.054	2RPV-664-33-54	MCM 2201.01-21 RDM 30738-1544	_____	VT1	QAL-13	CS	10.56	-----	WASHERS
B06.180.000	*CLASS 1 PUMPS	BOLTS AND STUDS***** *****	_____	***	*****	*****	_____	*****	GREATER THAN 2 INCH***** *****
B06.180.002	2RCP-2B-F	MCM 12L 01-120 MC 2553.1.0	_____	UT	NDE-44	CS	04.37 30.500	50360	24 BOLTS MAIN FLANGE PC.10
B06.190.000	*CLASS 1 PUMPS	FLANGE SURFACE***** *****	_____	***	*****	*****	_____	*****	WHEN CONNECTION DISASSEMBLED** *****

PROGRAM: NISIRONS-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 IN-SERVICE INSPECTION LISTING OUTAGE 7

PAGE 20
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B07.020.000	***PRESSURIZER	BOLTS,STUDS,AND NUTS *****	_____	***	*****	*****	_____	*****	***** *****
B07.030.000	*****STEAM	GENERATOR***** BOLTS,STUDS,AND NUTS	_____	***	*****	*****	_____	*****	***** *****
B07.030.001	2SGA-MN-MX	MCM 1201.01-3 -----	_____	VT1	QAL-13	CS	01.88	-----	SG2A MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN M-X QUADRANT
B07.030.002	2SGA-MN-ZM	MCM 1201.01-3 -----	_____	VT1	QAL-13	CS	01.88	-----	SG2A MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN Z-M QUADRANT
B07.030.003	2SGB-MN-XY	MCM 1201.01-3 -----	_____	VT1	QCL-13	CS	01.88	-----	SG2B MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN X-Y QUADRANT OUT.7 INSP. PER IMB-2430A ADDED PER IMB-2430(A)
B07.030.004	2SGB-MN-YZ	MCM 1201.01-3 -----	_____	VT1	QCL-13	CS	01.88	-----	SG2B MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN Y-Z QUADRANT OUT.7 INSP. PER IMB-2430A ADDED PER IMB-2430(A)
B07.030.005	2SGC-MN-MX	MCM 1201.01-3 -----	_____	VT1	QAL-13	CS	01.88	-----	SG2C MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN M-X QUADRANT PIR # 2-M92-0066 PIR # 2-M92-0066
B07.030.006	2SGC-MN-ZM	MCM 1201.01-3 -----	_____	VT1	QAL-13	CS	01.88	-----	SG2C MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN Z-M QUADRANT PIR # 2-M92-0066 PIR # 2-M92-0066

PROGRAM: NISIRCB-QAISI02
 FILE: C007133
 PLANT: HCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 HCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 21
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B07.030.007	2SGD-MW-XY	MCM 1201.01-3		VT1	QAL-13	CS	01.88	----	SG2D MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN X-Y QUADRANT RESCH. OUT2 TO OUT7
B07.030.008	2SGD-MW-YZ	MCM 1201.01-3		VT1	QAL-13	CS	01.88	----	SG2D MANWAY BOLTING (16 BOLTS) PRIMARY MANWAY IN X-Z QUADRANT RESCH. OUT2 TO OUT7
B07.050.000	CLASS 1 PIPING	BOLTS,STUDS,AND NUTS *****		***	*****	*****		*****	***** *****
B07.050.103	2NV282-FL1	MCFI-2NV-282		VT1	QAL-13	SS		----	FLANGE BOLTING RESCH. OUT. 2 TO OUT. 7
B07.060.000	*CLASS 1 PUMPS	BOLTS,STUDS,AND NUTS *****		***	*****	*****		*****	***** *****
B07.070.000	CLASS 1 VALVES	BOLTS,STUDS,AND NUTS *****		***	*****	*****		*****	***** *****
B07.070.001	2NC-1	MCM 1205.09-0001-001 MC 2553-2.0 MC-2NC53		VT1	QAL-13	CS		----	6" VALVE
B07.070.002	2NC-2	MCM 1205.09-0001-001 MC 2553-2.0 MC-2NC53		VT1	QAL-13	SS		----	6" VALVE

PROGRAM: NYSIN 88-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 UNIT 2 - SERVICE INSPECTION LISTING OUTAGE 7

PAGE 22
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
B07.070.003	2NC-3	MCM 1205.09-0001-001 MC 2553-2.0 MC-2NC53		VT1 QAL-13	SS			6" VALVE
B07.070.050	2NI-70	MCM 1205.00-0009-001 MC 2562-2.0 MC-2NI18		VT1 QAL-13	SS			10" VALVE RESCH. FROM OUT.2 TO OUT.7
B07.070.051	2NI-71	MCM 1205.00-0009-001 MC 2562-2.0 MC-2NI18		VT1 QAL-13	SS			10" VALVE RESCH. FROM OUT.2 TO OUT.7
B07.070.058	2NI-125	MCM 1205.00-0006-001 MC 2562-3.0 MC-2NI26		VT1 QAL-13	SS			8" VALVE RESCH. FROM OUT.4 TO OUT.7
B07.070.060	2NI-175	MCM 1205.00-0005-001 MC 2562-3.1 MC-2NI14		VT1 QAL-13	SS			6" VALVE
B07.070.061	2NI-176	MCM 1205.00-0005-001 MC 2562-3.1 MC-2NI12		VT1 QAL-13	SS			6" VALVE
B07.070.062	2NI-180	MCM 1205.00-0005-001 MC 2562-3.1 MC-2NI15		VT1 QAL-13	SS			6" VALVE
B07.070.063	2NI-181	MCM 1205.00-0005-001 MC 2562-3.1 MC-2NI16		VT1 QAL-13	SS			6" VALVE

PROGRAM: NIS-00B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 23
 DATE 05/08/92

ITEM NUMBER ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
B07.070.064 2NI-129	MCM 1205.00-0005-001 MC 2562-3.0 MC-2NI26		VT1 QAL-13	SS			8" VALVE
B07.070.065 2NI-134	MCM 1205.00-0005-001 MC 2562-3.0 MC-2NI26		VT1 QAL-13	SS			6" VALVE
B07.070.203 2NV-15	MCM 1205.00-0004-001 MC 2554-1.2 MC2NV229		VT1 QAL-13	SS			3" VALVE RESCH. OUT. 2 TO OUT. 7
B07.080.000 **CRD HOUSINGS	BOLTS, STUDS, AND NUTS *****		*** *****	*****			INSPECT IF DISASSEMBLED LIST CRD NUMBER INSPECTED

PROGRAM: NISPROB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B08

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

ITEM NUMBER	ID NUMBER	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB	COMMENTS
B08.010.000	*****REACTOR	***INTEGRALLY WELDED ATTACHMENTS*****	---	*** *****	---	---	*****	*****
B08.020.000	***PRESSURIZER	INTEGRALLY WELDED ATTACHMENTS*****	---	*** *****	---	---	*****	*****
B08.020.001	2PZR-SKIRT	MCM 2231.01-16 EDSK-57441B	---	MT NDE-25	CS	87.00 01.500	-----	PRESSURIZER SUPPORT SKIRT TO LOWER HEAD OUT.1 0 TO 120,OUT.7 0 TO 360

PROGRAM: NISINCB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 25
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B09.010.000	CLASS 1 PIPING	NOMINAL PIPE SIZE*** 4 INCH AND GREATER**		***	*****	****	---	****	***** *****
B09.011.060	*****	CIRCUMFERENTIAL***** HELDS*****		***	*****	****	---	****	***** *****
B09.011.014	2NC2F-2-4	MCM 2201.01-18/5 MC 2676-4		UT	NDE-610	SS	31.00 02.500	50214	LOOP 2
B09.011.014A	2NC2F-2-4	MCM 2201.01-18/5 MC 2676-4		PT	NDE-35	SS	31.00 02.500	----	LOOP 2
B09.011.015	2NCM-17365-1	MCM 2201.01-18/5 MC 2676-4		UT	NDE-610	SS	31.00 02.500	50214	PC 1 TO PC A LOOP 2
B09.011.015A	2NCM-17365-1	MCM 2201.01-18/5 MC 2676-4		PT	NDE-35	SS	31.00 02.500	----	PC. 1 TO PC. A LOOP 2
B09.011.016	2NCM-3671-1	MCM 2201.01-18/4 MC 2676-4		UT	NDE-610	SS	31.00 02.500	50214	PC 1 TO PC A LOOP 2
B09.011.016A	2NCM-3671-1	MCM 2201.01-18/4 MC 2676-4		PT	NDE-35	SS	31.00 02.500	----	PC. 1 TO PC. A LOOP 2

PROGRAM: NISROB-GAIST02
 FILE: COP/133
 PLANT: MCURE UNIT 2
 KEY: IY NUMBER B09

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 26
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
B09.011.304	2ND2F-12	MC-2561-1.0 MCFI-2NI-26		UT NDE-600	SS	14.00 01.250	50213	
B09.011.304A	2ND2F-12	MC-2561-1.0 MCFI-2NI-26		PT NDE-35	SS	14.00 01.250		
B09.011.429	2NI2FM26-7	MC-2562-3.0 MCFI-2NI-26		UT NDE-600	SS	08.00 00.906	50210	
B09.011.429A	2NI2FM26-7	MC-2562-3.0 MCFI-2NI-26		PT NDE-35	SS	08.00 00.906		
B09.011.430	2NI2FM26-16	MC-2562-3.0 MCFI-2NI-26		UT NDE-600	SS	08.00 00.906	50210	
B09.011.430A	2NI2FM26-16	MC-2562-3.0 MCFI-2NI-26		PT NDE-35	SS	08.00 00.906		
B09.012.000		LONGITUDINAL WELDS						
B09.020.000	CLASS I PIPING	NOMINAL PIPE SIZE < 6 INCH						

PROGRAM: NISI008-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 27
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
B09.021.000	*****	CIRCUMFERENTIAL**** WELDS*****	_____	***	*****	****	___'___	****	*****
B09.021.041	2NC2FM45-5	MC-2553-1.0 MCFI-2NC-45	_____	PT	NDE-35	SS	01.50 00.281	-----	SELECTION CRITERIA 4.2.1
B09.030.000	CLASS 1 PIPING	BRANCH PIPE***** CONNECTION WELDS****	_____	***	*****	****	___'___	****	*****
B09.031.000	**NOMINAL PIPE	SIZE 4 INCH AND GREATER*****	_____	***	*****	****	___'___	****	*****
B09.032.000	**NOMINAL PIPE	LESS THAN 4 INCH *****	_____	***	*****	****	___'___	****	*****
B09.040.000	**SOCKET WELDS	***** *****	_____	***	*****	****	___'___	****	*****
B09.040.027	2NC2FM45-6	MC-2553-1.0 MCFI-2NC-45	_____	PT	NDE-35	SS	01.50 00.281	-----	SELECTION CRITERIA 4.2.1
B09.040.028	2NC2FM45-10	MC-2553-1.0 MCFI-2NC-45	_____	PT	NDE-35	SS	01.50 00.281	-----	SELECTION CRITERIA 4.2.1

PROGRAM: NIS1105-QAIS102
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 28
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
B09.040.058	2NC2FM63-4	MC 2553-3.0 MCFI-2NC-74		PT NDE-35	SS	01.50 00.261		SELECTION CRITERIA 4.2.1
B09.040.121	2NI2FM109-1	MC 2562-1.0 MCFI-2NI-109		PT NDE-35	SS	02.00 00.344		
B09.040.123	2NI2FM109-12	MC 2562-1.0 MCFI-2NI-109		PT NDE-35	SS	02.00 00.344		
B09.040.125	2NI2FM115-9	MC 2562-1.0 MCFI-2NI-115		PT NDE-35	SS	02.00 00.344		
B09.040.127	2NI2FM115-17	MC 2562-1.0 MCFI-2NI-115		PT NDE-35	SS	02.00 00.344		
B09.040.130	2NI2FM116-11	MC 2562-1.0 MCFI-2NI-116		PT NDE-35	SS	02.00 00.344		
B09.040.131	2NI2FM116-14	MC 2562-1.0 MCFI-2NI-116		PT NDE-35	SS	02.00 00.344		
B09.040.132	2NI2FM116-19	MC 2562-1.0 MCFI-2NI-116		PT NDE-35	SS	02.00 00.344		

PROGRAM: NIS-100-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 29
 DATE 05/05/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK. BLOCK	COMMENTS
B09.040.150	2NV2FM102-1	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.151	2NV2FM102-2	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.152	2NV2FM102-3	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.153	2NV2FM102-4	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.154	2NV2FM102-5	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.155	2NV2FM102-6	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.156	2NV2FM102-7	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3
B09.040.157	2NV2FM102-8	MC 2554-1.2 MCFI-2NV-102		PT NDE-35	SS	02.00 00.344	SELECTION CRITERIA 4.2.3

PROGRAM: NIS-8-QAISI02
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B09

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 30
DATE 05/05/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBER	MATERIAL TYPE/GRADE	DIAM. THICK	CALIBR	COMMENTS
B09.040.158	2NV2FM102-9	MC 2554-1.2 MCFI-ZNV-102		PT NDE-35	SS	02.00	00.344	SELECTION CRITERIA 4.2.3

PROGRAM: NISIN08B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B12

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 - SERVICE INSPECTION LISTING OUTAGE 7

PAGE 51
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INCP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIBR BLOCK	COMMENTS
B12.040.000	#CLASS VALVE	INTERNAL SURFACES*** *****		MM *****			MMMM	*****
B12.040.001A	ZNC-1	MCM 1205.09-0001-001 MCFI-2NC53		VT3 QAL-14	SS	06.00		*****
B12.040.001B	ZNC-2	MCM 1205.09-0001-001 MCFI-2NC53		VT3 QAL-14	SS	06.00		*****
B12.040.001C	ZNC-3	MCM 1205.09-0001-001 MCFI-2NC53		VT3 QAL-14	SS	06.00		*****
B12.040.002B	27B-2A.C	MCM 1205.00-0010-001 MCFI-2ND1		VT3 QAL-14	SS	14.00		*****

PROGRAM: NIS/AB-BAIS102
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B13

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 32
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK.	CALIB. BLOCK	COMMENTS
B13.010.000	REACTOR VESSEL	VESSEL INTERI TR *****		*** *****	*****	---	*****	***** ***** ***** ***** ***** *****
B13.020.000	REACTOR VESSEL	CORE SUPPORT STRUCTURE		---	---	---	---	----- ----- ----- ----- ----- -----

PROGRAM: NIS 008-GAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B14

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 33
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	REACTOR VESSEL	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B14-P	000								INSPECT ONE OF THE FOLLOWING WELDS EACH INSPECTION PERIOD
B14-010-022	2RPV-CR/M76		MEM 2201.01-21 MEM 2201.01-20		PT 40E-35	IN/SS	04.00	00.642	

PROGRAM: NIS100B-QAISI02
 FILE: C007133
 PLANT: MCQUIRE UNIT 2
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 34
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DESCRIPTION	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B15.010.000	REACTOR VESSEL	PRESSURE RETAINING** BOUNDARY*****			*** *****	*****	-- --	*****	*****
B15.011.000	REACTOR VESSEL	PRESSURE RETAINING** BOUNDARY*****			*** *****	*****	-- --	*****	*****
B15.011.001	2RPV	MC-2553-1.0			VT2 QCL-15		-- --		REACTOR VESSEL SYSTEM HYDRO TEST
B15.020.000	***PRESSURIZER	PRESSURE RETAINING** BOUNDARY*****			*** *****	*****	-- --	*****	*****
B15.021.000	***PRESSURIZER	PRESSURE RETAINING** BOUNDARY*****			*** *****	*****	-- --	*****	*****
B15.021.001	2PZR	MC-2553-2.0			VT2 RCL-15		-- --		PRESSURIZER SYSTEM HYDRO TEST
B15.030.000	*****STEAM	GENERATORS PRESSURE** RETAINING BOUNDARY**			*** *****	*****	-- --	*****	*****
B15.031.000	*****STEAM	GENERATORS PRESSURE** RETAINING BOUNDARY**			*** *****	*****	-- --	*****	*****

PROGRAM: NISIRK08-QA15102
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 35
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
B15.031.001	256-2A	MC-2553-1.0		VT2 QCL-15				STEAM GENERATOR 2A SYSTEM HYDRO TEST
B15.031.002	256-2B	MC-2553-1.0		VT2 QCL-15				STEAM GENERATOR 2B SYSTEM HYDRO TEST
B15.031.003	256-2C	MC-2553-1.0		VT2 QCL-15				STEAM GENERATOR 2C SYSTEM HYDRO TEST
B15.031.004	256-2D	MC-2553-1.0		VT2 QCL-15				STEAM GENERATOR 2D SYSTEM HYDRO TEST
B15.050.000	CLASS 1 PIPING	PRESSURE RETAINING** BOUNDARY*****		*** *****	*****		RP/RR	***** *****
B15.050.007	2MC-2561-1.0	MC-2561-1.0		VT2 QAL-15				NO SYSTEM SYSTEM LEAKAGE TEST PARTIAL
B15.050.009	2MC-2562-2.0	MC-2562-2.0		VT2 QAL-15				NO SYSTEM SYSTEM LEAKAGE TEST PARTIAL
B15.050.010	2MC-2562-2.1	MC-2562-2.1		VT2 QAL-15				NO SYSTEM SYSTEM LEAKAGE TEST PARTIAL

PROGRAM: NISL0000-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 36
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB. BLOCK	COMMENTS
B15.050.011	ZMC-2562-3.0	MC-2562-3.0		VT2 QAL-15				NI SYSTEM SYSTEM LEAKAGE TEST PARTIAL
B15.050.012	ZMC-2562-3.1	MC-2562-3.1		VT2 QAL-15				NI SYSTEM SYSTEM LEAKAGE TEST
B15.051.001	ZMC-2553-1.0	MC-2553-1.0		VT2 QCL-15				MC SYST. HYDRO TEST INCL. DMG NO. MC-2499-NC1, NC2, NC7, NC20.01
B15.051.002	ZMC-2553-2.0	MC-2553-2.0		VT2 QCL-15				MC SYSTEM - HYDRO TEST INCL. DMG NO. MC-2499-NC4, NC5
B15.051.004	ZMC-2554-1.0	MC-2554-1.0		VT2 QCL-15				NV SYSTEM - HYDRO TEST INCL. DMG NO. MC-2499-NV1, NV4
B15.051.005	ZMC-2554-1.1	MC-2554-1.1		VT2 QCL-15				NV SYSTEM - HYDRO TEST INCL. DMG. NO. MC-2499-NV1, NV4
B15.051.006	ZMC-2554-1.2	MC-2554-1.2		VT2 QCL-15				NV SYSTEM HYDRO TEST
B15.051.007	ZMC-2561-1.0	MC-2561-1.0		VT2 QCL-15				ND SYSTEM HYDRO TEST PARTIAL

PROGRAM: MTSRWB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 37
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS. REQ.	INSP PROC. REG. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
B15.051.008	ZMC-2562-1.0	MC-2562-1.0		VT2 QCL-15				NI SYSTEM HYDRO TEST
B15.051.009	ZMC-2562-2.0	MC-2562-2.0		VT2 QCL-15				NI SYSTEM HYDRO TEST PARTIAL
B15.051.010	ZMC-2562-2.1	MC-2562-2.1		VT2 QCL-15				NI SYSTEM HYDRO TEST PARTIAL
B15.051.011	ZMC-2562-3.0	MC-2562-3.0		VT2 QCL-15				NI SYSTEM HYDRO TEST PARTIAL
B15.060.000	*CLASS 1 PUMPS	PRESSURE RETAINING** BOUNDARY*****		*** *****	*****			*****
B15.061.000	*CLASS 1 PUMPS	PRESSURE RETAINING** BOUNDARY*****		*** *****	*****			*****
B15.061.001	2RPC-2A	MC-2553-1.0		VT2 QCL-15				REACTOR COOLANT PUMP 2A SYSTEM HYDRO TEST
B15.061.002	2RPC-2B	MC-2553-1.0		VT2 QCL-15				REACTOR COOLANT PUMP 2B SYSTEM HYDRO TEST

PROGRAM: NISIRG8-QA1S102
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER 815

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSEPVIC INSPECTION LISTING OUTAGE 7

PAGE 38
 DATE 05/08/92

ITEM NUMBER ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
B15.070.000	MC-2553-1.0		VT2 QCL-15				REACTOR COOLANT PUMP 2C SYSTEM HYDRO TEST
B15.061.004	MC-2553-1.0		VT2 QCL-15				REACTOR COOLANT PUMP 2D SYSTEM HYDRO TEST
B15.070.000	PRESSURE RETAINING** BOUNDARY*****		*** *****				TO BE DONE WITH B15.050.000 ***** COMPLETED WITH B15.050.600

PROGRAM: NISLW08-0A1S102
 FILE: C087133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B16

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 39
 DATE 05/08/92

ITEM NUMBER ID, NUMBER	DRAWING NUMBER	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB	COMMENTS
B16.020.000 *****STEAM	GENERATOR TUBING						
B16.021.000 *****SGA STEAM	GENERATOR TUBING						
B16.021.001 2SGA-TUBES	MCM-2201.01-187		ET ISI-424 IN		00.75 50285		SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2
B16.022.000 *****SGB STEAM	GENERATOR TUBING						
B16.022.001 2SGB-TUBES	MCM-2201.02-187		ET ISI-424 IN		00.75 50285		SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2
B16.023.000 *****SGC STEAM	GENERATOR TUBING						
B16.023.001 2SGC-TUBES	MCM-2201.01-187		ET ISI-424 IN		00.75 50379		SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2
B16.024.000 *****SGD STEAM	GENERATOR TUBING						

PROGRAM: NIS B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B16

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 40
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PRCC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16.024.001	2SGD-TUBES	MCM-2201.01-187		ET	ISI-424	IN	00.75 00.043	50379	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2

PROGRAM: MISL000B-0AISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C01

DURE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 41
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOTS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
C01.000.000	*****CLASS 2	PRESSURE RETAINING HELDS IN VESSELS		*** *****			*****	*****
C01.010.000	*****SHELL	CIRCUMFERENTIAL HELDS		*** *****			*****	*****
C01.010.003	2SGC-04B-05	MCM 1201.01-480 MCM 2201.01-013		UT NDE-620 NDE-640	CS	03.310	50279	STEAM GENERATOR 2C LOWER SHELL TO TRANSITION CONE RESCHEDULE FROM OUT.5 TO OUT.7
C01.010.004	2SGC-05-06A	MCM 1201.01-480 MCM 2201.01-013		UT NDE-620 NDE-640	CS	04.000	50279	STEAM GENERATOR 2C TRANSITION CONE TO UPPER SHELL
C01.010.005	2SGC-04B-07	MCM 1201.01-480 MCM 2201.01-013		UT NDE-620 NDE-640	CS	03.890	50279	STEAM GENERATOR 2C UPPER SHELL TO HEAD
C01.020.000	*****HEAD	CIRCUMFERENTIAL HELDS		*** *****			*****	*****

PROGRAM: NIS-000B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C03

DURE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 43
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
C03.000.000	*****CLASS 2	INTEGRAL ATTACHMENTS MCSRD *****		MT *****			*****	*****
C03.040.000	*****PIPING	INTEGRALLY WELDED ATTACHMENT*****		MT *****			*****	*****
C03.040.002	2-MCR-CF-189	MCSRD 2CFC		MT NDE-25	CS	00.812		
C03.040.003	2-MCR-CF-210	MCSRD 2CFC		MT NDE-25	CS	00.812		
C03.040.025	2-MCR-SM-10	MC-2SM-2D1 MCSRD 2SMA		MT NDE-25	CS			6 LUG'S PCS# (4,5)(8,10)(9,11) STM. GEN.2A
C03.040.028	2-MCR-SM-98	MC-2SM-2A1 MCSRD 2SMA		MT NDE-25	CS			6 LUG'S PCS# (4,5)(8,10)(9,11) STM. GEN.2B

PROGRAM: NISIPONB-QAISI02
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER C04

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 44
DATE 05/08/92

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

PROGRAM: NISYS-8B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 45
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING N°/BERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIBR BLOCK	COMMENTS
C05.000.000	*****PRESSURE	RETAINING WELDS IN** PIPING*****		*** *****	*****	--	*****	*****
C05.010.000	CLASS 2 PIPING	1/2" AND LESS***** NOMINAL WALL THICK.*		*** *****	*****	--	*****	*****
C05.011.000	*****	CIRCUMFERENTIAL WELD *****		*** *****	*****	--	*****	*****
C05.011.010	2CA2FM49-5	MCFI-2CA-49 MC 2592-1.0		MT NDE-25	CS	06.00 00.432	-----	-----
C05.011.011	2CA2FM49-23	MCFI-2CA-49 MC 2592-1.0		MT NDE-25	CS	06.00 00.432	-----	-----
C05.011.353	2RN2F-502	MCFI-2RN-18 MC 2562-2.0		PT NDE-35	SS	10.00 00.365	-----	-----
C05.011.371	2RN2F-1496	MCFI-2RN-38 MC 2574-4.0		MT NDE-25	CS	06.00 00.280	-----	-----
C05.011.372	2RN2F-1497	MCFI-2RN-38 MC 2574-4.0		MT NDE-25	CS	06.00 00.280	-----	-----

PROGRAM: NIS-98-04ISI02
 FILE: C06713
 PLANT: MCQUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 46
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INCP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
C05.011.553	2SA2FM9-19	MCFI-2SA-9 MC 2593-1.2		MT NDE-25	CS	06.00 00.432		
C05.011.554	2SA2FM9-18	MCFI-2SA-9 MC 2593-1.2		MT NDE-25	CS	06.00 00.432		
C05.011.555	2SA2FM9-20	MCFI-2SA-9 MC 2593-1.2		MT NDE-25	CS	06.00 00.432		
C05.011.578	2SM2FM12-32	MCFI-2SM-12 MC 2593-1.0		MT NDE-25	CS	06.00 00.432		
C05.011.579	2SM2FM12-33	MCFI-2SM-12 MC 2593-1.0		MT NDE-25	CS	06.00 00.432		
C05.011.812	2VQ2FM8-1	MCFI-2VQ-8 MC 2585-1.0		PT NDE-35	S	06.00 00.134		
C05.011.813	2VQ2FM8-12	MCFI-2VQ-8 MC 2585-1.0		PT NDE-35	SS	06.00 00.134		
C05.011.814	2VQ2FM8-13	MCFI-2VQ-8 MC 2585-1.0		PT NDE-35	SS	06.00 00.134		

PROGRAM: NISL00MB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 47
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / CR. THICK	COM. BLOCK	COMMENTS
C05.011.015	2VQ2FM0-7	MCFI-2VQ-8 MC 2505-1.0		PT NDE-35	SS	06.00 00.134		
C05.011.016	2VQ2FM0-19	MCFI-2VQ-8 MC 2505-1.0		PT NDE-35	SS	06.00 00.134		SELECTION CRITERIA 5.2.2
C05.011.017	2VQ2FM0-20	MCFI-2VQ-8 MC 2505-1.0		PT NDE-35	SS	06.00 00.134		SELECTION CRITERIA 5.2.2
C05.012.000	*****	LONGITUDINAL WELDS *****		NDE *****	*****	--- --	*****	*****
C05.012.003	2VQ2FM7-2L	MCFI-2VQ-7 MC 2505-1.0		PT NDE-35	SS	06.00 00.134		
C05.020.000	CLASS 2 PIPING	> 1/2" NOMINAL THICKNESS		NDE *****	*****	--- --	*****	*****
C05.021.000	*****	CIRCUMFERENTIAL WELDS		NDE *****	*****	--- --	*****	*****
C05.021.050	2CF2FM13-1	MCFI-2CF-13 MC-2591-1.1		UT NDE-600	CS	14.00 00.844	50329	OUTLINE JULY 83 BASELINE

PROGRAM: NIS 88-9AISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 48
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK.	CALIB. BLOCK	COMMENTS
C05.021.050A	2CF2FM13-1	MCFI-2CF-13 MC-2591-1.1	_____	MT	NDE-25	CS	16.00 00.844	_____	OUT.1 & AUGUST 85 BASELINE
C05.021.051	2CF2FM13-4	MCFI-2CF-13 MC-2591-1.1	_____	UT	NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 85 BASELINE
C05.021.051A	2CF2FM13-4	MCFI-2CF-13 MC-2591-1.1	_____	MT	NDE-25	CS	16.00 00.844	_____	OUT.1 & JULY 85 BASELINE
C05.021.052	2CF2FM13-12	MCFI-2CF-13 MC-2591-1.1	_____	UT	NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 85 BASELINE
C05.021.052A	2CF2FM13-12	MCFI-2CF-13 MC-2591-1.1	_____	MT	NDE-25	CS	16.00 00.844	_____	OUT.1 & JULY 85 BASELINE
C05.021.053	2CF2FM13-15	MCFI-2CF-13 MC-2591-1.1	_____	UT	NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 85 BASELINE
C05.021.053A	2CF2FM13-15	MCFI-2CF-13 MC-2591-1.1	_____	MT	NDE-25	CS	16.00 00.844	_____	OUT.1 & JULY 85 BASELINE
C05.021.054	2CF2FM15-1	MCFI-2CF-13 MC-2591-1.1	_____	UT	NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 85 BASELINE

PROGRAM: NIS/AMB-QAISI02
 FILE: CCP7133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 49
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
C05.021.054A	2CF2FW15-1	MCFI-2CF-15 MC-2591-1.1	_____	MT NDE-25	CS	16.00 00.844	_____	OUT.1 & AUGUST 83 BASELINE
C05.021.055	2CF2FW15-4	MCFI-2CF-15 MC-2591-1.1	_____	UT NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 83 BASELINE
C05.021.055A	2CF2FW15-4	MCFI-2CF-15 MC-2591-1.1	_____	MT NDE-25	CS	16.00 00.844	_____	OUT.1 & JULY 83 BASELINE
C05.021.056	2CF2FW15-12	MCFI-2CF-15 MC-2591-1.1	_____	UT NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 83 BASELINE
C05.021.056A	2CF2FW15-12	MCFI-2CF-15 MC-2591-1.1	_____	MT NDE-25	CS	16.00 00.844	_____	OUT.1 & JULY 83 BASELINE
C05.021.057	2CF2FW15-15	MCFI-2CF-15 MC-2591-1.1	_____	UT NDE-600	CS	16.00 00.844	50329	OUT.1 & JULY 83 BASELINE
C05.021.057A	2CF2FW15-15	MCFI-2CF-15 MC-2591-1.1	_____	MT NDE-25	CS	16.00 00.844	_____	OUT.1 & JULY 83 BASELINE
C05.021.200	2ND2F-1A	MCFI-2ND-1 MC 2561-1.0	_____	UT NDE-600	SS	14.00 01.250	50213	

PROGRAM: NIS-908-0AISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 50
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
C05.021.200A	ZN02F-19	MCFI-2N0-1 MC 2561-1.0		PT NDE-35	SS	14.00 01.250		
C05.021.376	ZNI2FM26-1	MCFI-2NI-26 MC 2562-3.0		UT NDE-600	SS	14.00 01.250	50213	
C05.021.376A	ZNI2FM26-1	MCFI-2NI-26 MC 2562-3.0		PT NDE-35	SS	14.00 01.250		
C05.021.377	ZNI2FM26-12	MCFI-2NI-26 MC 2562-3.0		UT NDE-600	SS	08.00 00.906	50210	
C05.021.377S	ZNI2FM26-12	MCFI-2NI-26 MC 2562-3.0		PT NDE-35	SS	08.00 00.906		
C05.021.378	ZNI2FM26-27	MCFI-2NI-26 MC 2562-3.0		UT NDE-600	SS	14.00 01.250	50213	
C05.021.378A	ZNI2FM26-27	MCFI-2NI-26 MC 2562-3.0		PT NDE-35	SS	14.00 01.250		
C05.021.676	ZSM2F-100	MCFI-2SM-4 MC 2593-1.3		UT NDE-600	CS	32.00 01.375	40415	32" MIN. M. 1.375, NOM. M. 1.500

PROGRAM: NISIRUB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 51
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REG. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / CAL' B	COMMENTS
C05.021.676A	2SMZF-100	MCFI-2SM-4 MC 2593-1.3		MT NDE-25	CS	32.00 01.375	32" MIN. M. I. 375, NOM. M. I. 500
C05.021.678	2SMZF-98	MCFI-2SM-4 MC 2593-1.3		UT NDE-600	CS	34.00 01.250	34" MIN. M. I. 250, NOM. M. I. 375
C05.021.676A	2SMZF-98	MCFI-2SM-4 MC 2593-1.3		MT NDE-25	CS	34.00 01.250	34" MIN. M. I. 250, NOM. M. I. 375

PROGRAM: NISLING-QAISI02
 FILE: C007135
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 53
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB. BLOCK	COMMENTS
C07.010.000	*****PRESSURE	VESSLS*****	---	---	---	---	---	PRESSURE RETAINING COMPONENTS*
C07.011.000	*****PRESSURE	VESSLS*****	---	---	---	---	---	PRESSURE RETAINING COMPONENTS*
C07.020.000	*****PIPING	*****	---	---	---	---	---	PRESSURE RETAINING COMPONENTS*
C07.030.000	*****PUMPS	*****	---	---	---	---	---	PRESSURE RETAINING COMPONENTS* SYSTEM PRESSURE TEST*****
C07.031.000	*****PUMPS	*****	---	---	---	---	---	PRESSURE RETAINING COMPONENTS* SYSTEM HYDRO TEST*****
C07.040.000	*****VALVES	*****	---	---	---	---	---	PRESSURE RETAINING COMPONENTS*

PROGRAM: NISI 8-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER D01

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 54
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. NO.	INGP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	TICK	CALIB. BLOCK	COMMENTS
D01.010.000	*****PRESSURE	RETAINING COMPONENTS						EXAMINATION CATEGORY D-A
D01.012.002	ZMC-2554-2.0	MC 2554-2.0		VT2 QCL-15				NV SYSTEM - HYDRO TEST INCL. SHEET 2 PARTIAL
D01.012.004	ZMC-2554-4.0	MC 2554-4.0		VT2 QCL-15				NV SYSTEM - HYDRO TEST INCL. SHEET 2 & 3
D01.012.005	ZMC-2554-5.0	MC 2554-5.0		VT2 QCL-15				NV SYSTEM - HYDRO TEST INCL. SHEET 2,3,4 & 5
D01.012.007	ZMC-2556-3.0	MC-2556-3.0		VT2 QCL-15				NB SYSTEM - HYDRO TEST
D01.012.008	ZMC-1554-5.0	MC-1554-5.0		VT2 QCL-15				NV SYSTEM - HYDRO TEST
D01.012.009	ZMC-1556-1.0	MC-1556-1.0		VT2 QCL-15				NB SYSTEM - HYDRO TEST
D01.012.010	ZMC-1556-1.1	MC-1556-1.1		VT2 QCL-15				NB SYSTEM - HYDRO TEST

PROGRAM: NISIRU GAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER D01

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 55
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
D01.012.011	2MC-2555-1.0	MC-2555-1.0		VTZ QCL-15				NR SYSTEM - HYDRO TEST

PROGRAM: NISI-98-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER D02

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 57
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
D02.011.037	2MC-2609-6.0	MC-2609-6.0		VT2	QAL-15				ZD SYSTEM
D02.011.038	2MC-1567-1.0	MC-1567-1.0		VT2	QAL-15				HL SYSTEM
D02.012.002	2MC-2573-1.0	MC 2573-1.0		VT2	QCL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5 & 6
D02.012.003	2MC-2573-1.1	MC 2573-1.1		VT2	QAL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2,3,4 & 5 PARTIAL
D02.012.004	2MC-2573-2.0	MC 2573-2.0		VT2	QCL-15				KC SYSTEM - HYDRO TEST INCL SHEET 2,3,4 & 5 PARTIAL
D02.012.005	2MC-2573-2.1	MC 2573-2.1		VT2	QCL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2,3,4 & 5 PARTIAL
D02.012.006	2-MC-1573-2.2	MC-1573-2.2		VT2	QCL-15				KC SYSTEM - HYDRO TEST
D02.012.007	2MC-2573-3.0	MC 2573-3.0		VT2	QCL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2 & 3

PROGRAM: NISI/SRB-QAISTON
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER 002

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 58
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
002.012.008	2MC-2573-3.1	MC 2573-3.1		VT2	QCL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2 & 3
002.012.009	2MC-2573-4.0	MC 2573-4.0		VT2	QAL-15				KC SYSTEM - HYDRO TEST PARTIAL
002.012.011	2MC-2574-1.1	MC 2574-1.1		VT2	QCL-15				RN SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6,7 & 8 PARTIAL
002.012.012	2MC-2574-2.0	MC 2574-2.0		VT2	QCL-15				RN SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6 & 7 PARTIAL
002.012.014	2MC-2574-3.0	MC 2574-3.0		VT2	QCL-15				RN SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6 & 7 PARTIAL
002.012.016	2MC-2574-4.0	MC 2574-4.0		VT2	QCL-15				RN SYSTEM - HYDRO TEST
002.012.018	2MC-2592-1.1	MC 2592-1.1		VT2	QCL-15				CA SYSTEM - HYDRO TEST INCL. SHET. 2,3,4,5,6,7,8 & 9 PARTIAL
002.012.019	2MC-2593-1.2	MC 2593-1.2		VT2	QCL-15				SA SYSTEM - HYDRO TEST INCL. SR T 2 & 3 PARTIAL

PROGRAM: NISIR-01-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER 002

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 59
 DATE 05/08/92

ITEM NUMBER ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK BLOCK	COMMENTS
D02.012.022 2MC-2609-2.0	MC-2609-2.0		VT2 QAL-15			LD SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6 & 7 PARTIAL
D02.012.023 2MC-2609-2.1	MC-2609-2.1		VT2 QAL-15			LD SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6 & 7 PARTIAL
D02.012.02 2MC-2609-3.0	MC-2609-3.0		VT2 QAL-15			FD SYSTEM - HYDRO TEST INCL. SHEET 2,3,4 & 5
D02.012.025 2MC-2609-3.1	MC-2609-3.1		VT2 QAL-15			FD SYSTEM - HYDRO TEST INCL. SHEET 2,3,4 & 5
D02.012.028 2MC-1573-4.0	MC-1573-4.0		VT2 QAL-15			KC SYSTEM - HYDRO TEST
D02.012.033 2MC-2609-4.0	MC-2609-4.0		VT2 QAL-15			VG SYSTEM-PNEUMATIC TEST
D02.020.000 *****INTEGRAL	ATTACHMENTS***** *****		PHS *****	*****	*****	EXAM CATEGORY D-B, COMPONENT** SUPPORTS AND RESTRAINTS*****

PROGRAM: NISI-AB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER D03

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 60
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
D03.010.000	*****PRESSURE	RETAINING COMPONENTS *****	_____	***	*****	*****	_____	*****	EXAMINATION CATEGORY D-C***** *****
D03.011.000	*****SYSTEM	INSERVICE TEST***** *****	_____	***	*****	*****	_____	*****	***** *****

PROGRAM: NISIRONE-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E01

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 61
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E01.001.000	*****REACTOR	COOLANT PUMPS***** FLYHHEEL EXAMS*****		*** *****	*****		*****	***** *****
E01.001.001	2RCP-2A	MCM 1201.01-7		UT ISI-117 NDE-900				ISI-117 OUT.3,5 NDE-900 STARTING WITH OUT.7
E01.001.002	2RCP-2B	MCM 1201.01-7		UT ISI-117 NDE-900				ISI-117 OUT.1,4,6 NDE-900 STARTING WITH OUT.7
E01.001.004	2RCP-2D	MCM 1201.01-7		UT ISI-117 NDE-900				ISI-117 OUT.2,5 NDE-900 STARTING WITH OUT.7

PROGRAM: NISIR 5-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E02

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 62
 DATE 05/08/92

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

PROGRAM: NIS-INS-QAISI02
FILE: CC07133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER E03

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 63
DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E03.001.000	*****PIPE	RUPTURE PROTECTION		*** *****	*****	---	*****	***** ***** *****

PROGRAM: NISSA06-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E04

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 64
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E04.001.000	*****STEAM	GENERATOR FEEDWATER MODIFICATION*****	_____	*** *****	*****	---	*****	***** *****
E04.001.010	2SGB	_____	_____	VT ISI-350 QAL-14	_____	---	----	EXAMINATION REQUIRED AFTER INSTALLATION OF MODIFICATION ISI-350(OUT.1,3) QAL-14(OUT.7)

PROGRAM: NISIRUB-QAISI02
 FILE: C097133
 PLANT: HCGUIRE UNIT 2
 KEY: ITEM NUMBER E06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 65
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
E06.001.000	*****THERMAL STRESS	*****	*****	*****	*****	*****	*****	*****NRC BULLETIN 88-08*****
E06.001.001	2NC2FM39-1	MC-2553-1.0 MCFI-2NC-39		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2A 1" BM(A)X(C)IRC) 15 DAY REP REQ
E06.001.002	2NCP75-1	MC-2553-1.0 MCFI-2NC-39		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2A BEND: 15 DAY REP REQ
E06.001.003	2NC2FM39-2	MC-2553-1.0 MCFI-2NC-39		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2A 1" BM(A)X(C)IRC) 15 DAY REP REQ
E06.001.004	2NC2FM40-11	MC-2553-1.0 MCFI-2NC-40		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2B 1" BM(A)X(C)IRC) 15 DAY REP REQ
E06.001.005	2NCP192-1	MC-2553-1.0 MCFI-2NC-40		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2B BEND: 15 DAY REP REQ
E06.001.006	1' C2FM40-12	MC-2553-1.0 MCFI-2NC-40		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2B 1" BM(A)X(C)IRC) 15 DAY REP REQ
E06.001.007	2NC2FM40-13	MC-2553-1.0 MCFI-2NC-40		UT NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2B 1" BM(A)X(C)IRC) 15 DAY REP REQ

PROGRAM: NISIRCM-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 66
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PRVC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
E06.001.008	2NC2FW40-14	MC-2553-1.0 MCFI-2NC-40	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-2B 1" BM(A&CIRC) 15 DAY REP REQ
E06.001.009	2NC2FW43-1	MC-2553-1.0 MCFI-2NC-43	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-3C 1" BM(A&CIRC) 15 DAY REP REQ
E06.001.010	2NCP193-1	MC-2553-1.0 MCFI-2NC-43	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-3C BEND: 15 DAY REP REQ
E06.001.011	2NC2FW43-2	MC-2553-1.0 MCFI-2NC-43	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-3C 1" BM(A&CIRC) 15 DAY REP REQ
E06.001.012	2NC2FW43-3	MC-2553-1.0 MCFI-2NC-43	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-3C 1" BM(A&CIRC) 15 DAY REP REQ
E06.001.013	2NC2FW45-5	MC-2553-1.0 MCFI-2NC-45	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-4D 1" BM(A&CIRC) 15 DAY REP REQ
E06.001.014	2NCP82-1	MC-2553-1.0 MCFI-2NC-45	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-4D BEND: 15 DAY REP REQ SEE SECT.10 FOR EXCEPTION REQ.
E06.001.015	2NC2FW45-6	MC-2553-1.0 MCFI-2NC-45	_____	UT	NDE-600	SS	01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-4D 1" BM(A&CIRC) 15 DAY REP REQ

PROGRAM: MIS-98B-QA1S102
 FILE: C07133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 67
 DATE 05/06/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROG. TYPE/GRADE	MATERIAL	DIAM./THICK	CALIB. BLOCK	COMMENTS
E06.001.016	2HC2FW05-7	MC-2553-1.0 MCFI-2MC-45		UT	NDE-600 SS		00.281	50202	NRC BULLETIN 88-08, LOOP-4D 1" BH(A&CIRC) 15 DAY REP REQ
E06.001.017	2MCP83-1	MC-2553-1.0 MCFI-2MC-45		UT	NDE-600 SS		01.50 00.281	50202	NRC BULLETIN 88-08, LOOP-4D BEND: 15 DAY REP REQ SEE SECT. 10 FOR EXCEPTION REQ.

PROGRAM: NISIR-QATSI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 68
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E07.001.000	*** IGSCC CRACKING	IN SI ACCUMULATOR NOZZLES *****		***	*****	*****			***** NRC INFORMATION NOTICE NO.91-05 *****
E07.001.001	2NI2FWLT5040-4	MCM 1201.04-36 2NILT-5040		PT	NDE-35	SS	02.00		ACCUMULATOR 2A REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.002	2NI2FWLT5040-8	MCM 1201.04-36 2NILT-5040		PT	NDE-35	SS	02.00		ACCUMULATOR 2A REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.003	2NI2FWLT5050-4	MCM 1201.04-36 2NILT-5050		PT	NDE-35	SS	02.00		ACCUMULATOR 2A REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.004	2NI2FWLT5050-8	MCM 1201.04-36 2NILT-5050		PT	NDE-35	SS	02.00		ACCUMULATOR 2A REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.005	2NI2FWLT5060-4	MCM 1201.04-36 2NILT-5060		PT	NDE-35	SS	02.00		ACCUMULATOR 2B REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.006	2NI2FWLT5060-8	MCM 1201.04-36 2NILT-5060		PT	NDE-35	SS	02.00		ACCUMULATOR 2B REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.007	2NI2FWLT5070-4	MCM 1201.04-36 2NILT-5070		PT	NDE-35	SS	02.00		ACCUMULATOR 2B REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91

PROGRAM: NIS1408-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 69
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E07.001.008	2NI2FWLY5070-8	MCM 1201.04-36 2NILT-5070	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2B REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.009	2NI2FWLT5080-4	MCM 1201.04-36 2NILT-5080	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2C REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.010	2NI2FWLT5080-8	MCM 1201.04-36 2NILT-5080	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2C REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.011	2NI2FWLT5090-4	MCM 1201.04-36 2NILT-5090	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2C REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.012	2NI2FWLT5090-8	MCM 1201.04-36 2NILT-5090	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2C REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.013	2NI2FWLT5100-4	MCM 1201.04-36 2NILT-5100	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2D REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.014	2NI2FWLT5100-8	MCM 1201.04-36 2NILT-5100	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2D REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91
E07.001.015	2NI2FWLT5110-4	MCM 1201.04-36 2NILT-5110	_____	PT	NDE-35	SS	02.00	_____	ACCUMULATOR 2D REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91

PROGRAM: NIS100B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 70
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	INS. REQ. NO.	PROC. NO.	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
E07.001.016	2NI2FWLT5110-8	MCM 1201.04-36 2NILT-5110		PT	NDE-35 SS	02.00		ACCUMULATOR 2D REF. IE NOTICE 91-05 ATTACH.1 DATED 03-10-91

PROGRAM: NISIPONB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 71
 DATE 05/02/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.000	*****CLASS 1	SUPPORTS***** *****							
F1.01.117	2-MCR-NC-4223	MCSR0 2NC211		VT	QAL-14	----	02.00	----	MECHANICAL SNUBBER
F1.01.118	2-MCR-NC-4224	MCSR0 2NC211		VT	QAL-14	----	02.00	----	MECHANICAL SNUBBER
F1.01.119	2-MCR-NC-4225	MCSR0 2NC211		VT	QAL-14	----	02.00	----	SPRING HANGER
F1.01.120	2-MCR-NC-4226	MCSR0 2NC211		VT	QAL-14	----	02.00	----	MECHANICAL SNUBBER
F1.01.121	2-MCR-NC-4125	MCSR0 2NC213		VT	QAL-14	----	02.00	----	MECHANICAL SNUBBER
F1.01.122	2-MCR-NC-4227	MCSR0 2NC213		VT	QAL-14	----	02.00	----	MECHANICAL SNUBBER AND SPRING CAN
F1.01.123	2-MCR-NC-4230	MCSR0 2NC213		VT	QAL-14	----	02.00	----	MECHANICAL SNUBBER

PROGRAM: NISIT-8-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND INSERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 72
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
F1.01.124	2-MCR-NC-4231	MCSR0 2NC213	_____	VT	QAL-14	-----	02.00	-----	MECHANICAL SNUBBER
F1.01.141	2-MCR-NC-4163	MCSR0 2NV202	_____	VT	QAL-14	-----	03.00	-----	MECHANICAL SNUBBER
F1.01.142	2-MCR-NC-4164	MCSR0 2NV202	_____	VT	QAL-14	-----	03.00	-----	MECHANICAL SNUBBER
F1.01.143	2-MCR-NC-4165	MCSR0 2NV202	_____	VT	QAL-14	-----	03.00	-----	SPRING HANGER
F1.01.144	2-MCR-NC-4001	MCSR0 2NI203	_____	VT	QAL-14	-----	10.00	-----	SPRING HANGER
F1.01.147	2-MCR-NC-4072	MCSR0 2NI213	_____	VT	QAL-14	-----	01.50	-----	MECHANICAL SNUBBER
F1.01.151	2-MCR-NC-4091	MCSR0 2NV204	_____	VT	QAL-14	-----	03.00	-----	MECHANICAL SNUBBER
F1.01.152	2-MCR-NC-4092	MCSR0 2NV204	_____	VT	QAL-14	-----	02.00	-----	MECHANICAL SNUBBER

PROGRAM: NIS 88-BAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 73
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.204	2-MCR-ND-4006	MCSR0 2ND201	_____	VT	QAL-14	-----	14.00	-----	MECHANICAL SNUBBER
F1.01.205	2-MCR-ND-4500	MCSR0 2ND201	_____	VT	QAL-14	-----	14.00	-----	RIGID SUPPORT
F1.01.206	2-MCR-ND-4501	MCSR0 2ND201	_____	VT	QAL-14	-----	14.00	-----	RIGID SUPPORT
F1.01.314	2-MCR-NI-4946	MCSR0 2ND201	_____	VT	QAL-14	-----	08.00	-----	SPRING HANGER
F1.01.331	2-MCR-NI-4528	MCSR0 2NI201	_____	VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.01.333	2-MCR-NI-4537	MCSR0 2NI201	_____	VT	QAL-14	-----	10.00	-----	MECHANICAL SNUBBER
F1.01.334	2-MCR-NI-4611	MCSR0 2NI201	_____	VT	QAL-14	-----	10.00	-----	SPRING HANGER
F1.01.335	2-MCR-NI-4612	MCSR0 2NI201	_____	VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER

PROGRAM: NISI08B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 74
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
F1.01.336	2-MCR-NI-4614	MCSR0 2NI201		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.01.337	2-MCR-NI-4615	MCSR0 2NI201		VT	QAL-14		10.00		SPRING & MECHANICAL SNUBBER
F1.01.338	2-MCR-NI-4617	MCSR0 2NI201		VT	QAL-14		10.00		MECHANICAL SNUBBER
F1.01.339	2-MCR-NI-4008	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.01.343	2-MCR-NI-4035	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.01.348	2-MCR-NI-4547	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.01.349	2-MCR-NI-4548	MCSR0 2NI203		VT	QAL-14		10.00		MECHANICAL SNUBBER
F1.01.350	2-MCR-NI-4549	MCSR0 2NI203		VT	QAL-14		10.00		MECHANICAL SNUBBER

PROGRAM: NIS 100B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECT. / LISTING OUTAGE 7

PAGE 75
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
F1.01.362	2-MCR-NI-4569	MCSR0 2NI203		VT	QAL-14	-----	10.00	-----	MECHANICAL SNUBBER
F1.01.363	2-MCR-NI-4570	MCSR0 2NI203		VT	QAL-14	-----	10.00	-----	MECHANICAL SNUBBER
F1.01.364	2-MCR-NI-4571	MCSR0 2NI203		VT	QAL-14	-----	10.00	-----	RIGID SUPPORT
F1.01.366	2-MCR-NI-4577	MCSR0 2NI203		VT	QAL-14	-----	10.00	-----	RIGID SUPPORT
F1.01.368	2-MCR-NI-4580	MCSR0 2NI203		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER
F1.01.369	2-MCR-NI-4581	MCSR0 2NI203		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.01.370	2-MCR-NI-4582	MCSR0 2NI203		VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.01.371	2-MCR-NI-4585	MCSR0 2NI203		VT	QAL-14	-----	06.00	-----	MECHANICAL SNUBBER

PROGRAM: NISS/DNB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 76
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAH./THICK	CALIB BLOCK	COMMENTS
F1.01.372	2-MCR-NI-4586	MCSR0 2NI203		VT	QAL-14		10.00		MECHANICAL SNUBBER
F1.01.373	2-MCR-NI-4588	MCSR0 2NI203		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.01.374	2-MCR-NI-4589	MCSR0 2NI203		VT	QAL-14		10.00		MECHANICAL SNUBBER
F1.01.505	2-MCR-NI-4913	MCSR0 2NI214		VT	QAL-14		01.50		SPRING HANG'ER
F1.01.521	2-MCR-NI-4122	MCSR0 2NI216		VT	QAL-14		01.50		SPRING & MECHANICAL SNUBBER
F1.01.697	2-MCR-NV-4103	MCSR0 2NV206		VT	QAL-14		02.00		RIGID SUPPORT
F1.01.698	2-MCR-NV-4104	MCSR0 2NV206		VT	QAL-14		02.00		RIGID SUPPORT
F1.01.699	2-MCR-NV-4105	MCSR0 2NV206		VT	QAL-14		02.00		RIGID SUPPORT

PROGRAM: NISI 88-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

Duke POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 77
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.700	2-MCR-NV-4106	MCSR0 2NV206	_____	VT	QAL-14	-----	02.00	-----	MECHANICAL SNUBBER
F1.01.701	2-MCR-NV-4108	MCSR0 2NV206	_____	VT	QAL-14	-----	02.00	-----	RIGID SUPPORT
F1.01.702	2-MCR-NV-4109	MCSR0 2NV206	_____	VT	QAL-14	-----	02.00	-----	RIGID SUPPORT
F1.01.703	2-MCR-NV-4110	MCSR0 2NV206	_____	VT	QAL-14	-----	01.50	-----	RIGID SUPPORT
F1.01.704	2-MCR-NV-4001	MCSR0 2NV207	_____	VT	QAL-14	-----	02.00	-----	RIGID SUPPORT
F1.01.705	2-MCR-NV-4002	MCSR0 2NV207	_____	VT	QAL-14	-----	02.00	-----	RIGID SUPPORT
F1.01.706	2-MCR-NV-4003	MCSR0 2NV207	_____	VT	QAL-14	-----	02.00	-----	RIGID SUPPORT
F1.01.708	2-MCR-NV-4006	MCSR0 2NV207	_____	VT	QAL-14	-----	02.00	-----	RIGID SUPPORT

PROGRAM: NIS-01B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 78
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.715	2-MCR-NV-4321	MCSR0 2NV208		VT	QAL-14		02.00		RIGID SUPPORT
F1.01.716	2-MCR-NV-4322	MCSR0 2NV208		VT	QAL-14		02.00		RIGID SUPPORT
F1.01.717	2-MCR-NV-4323	MCSR0 2NV208		VI	QAL-14		02.00		RIGID SUPPORT
F1.01.723	2-MCR-NV-4329	MCSR0 2NV208		VT	QAL-14		02.00		RIGID SUPPORT
F1.01.724	2-MCR-NV-4330	MCSR0 2NV208		VT	QAL-14		02.00		RIGID SUPPORT
F1.01.736	2PZR-SKIRT	MCM 2201.01-16 EDSK-379441B		VT	QAL-14				PRESSURIZER SUPPORT SKIRT
F1.01.739	2PZR-SUPPORT	MC-1070-4 MC-1070-6		VT	QAL-14				PRESSURIZER LOWER SUPPORT FRAME
F1.01.740	2SGA-COLUMNS	MC-1070-4 MC1070-17		VT	QAL-14				STEAM GENERATOR SUPPORT COLUMNS (4 ASSEMBLIES)

PROGRAM: NIS-08B-QAISI02
 FILE: C097133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 79
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.01.741	2SGD-SUPPORT	MC 1070-4 MC 1070-10	_____	VT	QAL-14	_____	_____	_____	STEAM GENERATOR UPPER LATERAL AND SPRINGERS
F1.02.000	*****CLASS 2	SUPPORTS***** *****	_____	---	_____	_____	_____	_____	_____
F1.02.046	2-MCR-CA-093	MCSR D 2CA0	_____	VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.048	2-MCR-CA-096	MCSR D 2CA0	_____	VT	QAL-14	-----	06.00	-----	SPRING HANGER
F1.02.051	2-MCR-CA-100	MCSR D 2CA0	_____	VT	QAL-14	-----	06.00	-----	SPRING HANGER
F1.02.052	2-MCR-CA-102	MCSR D 2CA0	_____	VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.053	2-MCR-CA-103	MCSR D 2CA0	_____	VT	QAL-14	-----	06.00	-----	RIGID SUPPORT
F1.02.054	2-MCR-CA-104	MCSR D 2CA0	_____	VT	QAL-14	-----	06.00	-----	RIGID SUPPORT

PROGRAM: NISIRONB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 80
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.02.055	2-MCR-CA-168	MCSR0 2CA0		VT	QAL-14		06.00		SPRING HANGER
F1.02.064	2-MCR-CA-149	.SRD 2CAP		VT	QAL-14		06.00		RIGID SUPPORT
F1.02.065	2-MCR-CA-150	MCSR0 2CAP		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.02.066	2-MCR-CA-151	MCSR0 2CAP		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.02.067	2-MCR-CA-156	MCSR0 2CAP		VT	QAL-14		06.00		SPRING & MECHANICAL SNUBBER
F1.02.068	2-MCR-CA-158	MCSR0 2CAP		VT	QAL-14		06.00		SPRING HANGER
F1.02.069	2-MCR-CA-159	MCSR0 2CAP		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.02.173	2-MCR-VQ-4509	MCSR0 2VQ202		VT	QAL-14		06.00		RIGID SUPPORT

PROGRAM: NISINARB-QAISI02
 FILE: C007133
 PLANT: MCCUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SY: 3M
 MCCUIRE 2 INSERVICE INSPECTION LISTING OUTLINE 7

PAGE 81
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REG. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ CALIB THICK BLOCK	COMMENTS
F1.02.174	2-MCR-VQ-4510	MCSPO 2VQ292		VT QAL-14		06.00	RIGID SUPPORT
F1.02.175	2-MCR-VQ-4511	MCSRD 2VQ202		VT QAL-14		06.00	RIGID SUPPORT
F1.02.176	2-MCR-VQ-4512	MCSRD 2VQ202		VT QAL-14		06.00	RIGID SUPPORT
F1.02.177	2-MCR-VQ-4513	MCSRD 2VQ202		VT QAL-14		06.00	SPRING HANGER
F1.02.222	2-MCA-CF-207	MCSRD 2CFC		VT QAL-14		26.00	SPRING HANGER
F1.02.223	2-MCA-CF-208	MCSRD 2CFC		VT QAL-14		26.00	MECHANICAL SNUBBER
F1.02.224	2-MCR-CF-158	MCSRD 2CFC		VT QAL-14		18.00	SPRING HANGER
F1.02.225	2-MCR-CF-159	MCSRD 2CFC		VT QAL-14		18.00	MECHANICAL SNUBBER

PROGRAM: NIS RB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 82
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL THICK	DIAM./CALIB	COMMENTS
F1.02.227	2-MCR-CF-174	MCSR0 2CFC		VT	QAL-14	18.00		SPRING HANGER
F1.02.228	2-MCR-CF-175	MCSR0 2CFC		VT	QAL-14	18.00		MECHANICAL SNUBBER
F1.02.229	2-MCR-CF-188	MCSR0 2CFC		VT	QAL-14	18.00		SPRING HANGER
F1.02.230	2-MCR-CF-189	MCSR0 2CFC		VT	QAL-14	18.00		HYDRAULIC SNUBBER
F1.02.231	2-MCR-CF-209	MCSR0 2CFC		VT	QAL-14	18.00		SPRING HANGER
F1.02.232	2-MCR-CF-210	MCSR0 2CFC		VT	QAL-14	18.00		HYDRAULIC SNUBBER
F1.02.233	2-MCR-CF-302	MCSR0 2CFC		VT	QAL-14	18.00		MECHANICAL SNUBBER
F1.02.356	2-MCA-SV-010	MCSR0 2SVA		VT	QAL-14	06.00		SPRING HANGER

PROGRAM: NIS 88-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 93
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.02.360	2-MCA-SV-060	MCSR0 2SVA		VT	QAL-14		06.00		SPRING HANGER
F1.02.365	2-MCA-SA-5163	MCSR0 2SA350		VT	QAL-14		06.00		SPRING & MECHANICAL SNUBBER
F1.02.367	2-MCA-SA-5084	MCSR0 2SA350		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.02.368	2-MCA-SA-5187	MCSR0 2SA350		VT	QAL-14		06.00		MECHANICAL SNUBBER AND SPRING CAN
F1.02.638	2-MCR-NI-4031	MCSR0 2NI203		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.02.654	2-MCA-NI-5040	MCSR0 2FW350		VT	QAL-14		18.00		RIGID SUPPORT
F1.02.655	2-MCA-NI-5041	MCSR0 2FW350		VT	QAL-14		18.00		RIGID SUPPORT
F1.02.656	2-MCR-NI-4032	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT

PROGRAM: NIS MB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER FL

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 84
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.02.657	2-MCR-NI-4034	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.02.658	2-MCR-NI-4544	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.02.659	2-MCR-NI-4551	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.02.660	2-MCR-NI-4552	MCSR0 2NI203		VT	QAL-14		06.00		MECHANICAL SNUBBER
F1.02.661	2-MCR-NI-4553	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.02.662	2-MCR-NI-4554	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT
F1.02.663	2-MCR-NI-4556	MCSR0 2NI203		VT	QAL-14		06.00		HYDRAULIC SNUBBER
F1.02.664	2-MCR-NI-4557	MCSR0 2NI203		VT	QAL-14		06.00		RIGID SUPPORT

PROGRAM: MISC-NB-GAIS102
 FILE: C007153
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER FL

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 05
 DATE 05/05/02

ITEM NUMBER	ID NUMBER	DRAWING NUMBERS	LOCS.	INSP. PRG. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK.	COMMENTS
F1.02.665	2-MCR-NI-4558	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT
F1.02.666	2-MCR-NI-4559	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT
F1.02.667	2-MCR-NI-4560	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT
F1.02.668	2-MCR-NI-4561	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT
F1.02.669	2-MCR-NI-4563	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT
F1.02.670	2-MCR-NI-4560	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT
F1.02.671	2-MCR-NI-4561	MCSR0 2NI203		VT QAL-14		06.00	MECHANICAL SNUBBER
F1.02.672	2-MCR-NI-4562	MCSR0 2NI203		VT QAL-14		06.00	RIGID SUPPORT

PROGRAM: NIS-AB-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER FL

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 86
 DATE 05/08/92

ITEM NUMBER ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	D.I.M./ CALIBR BLOCK	COMMENTS
F1.02.673 2-MCR-NI-4573	MCSR0 2ND203		VT QAL-14		10.00	RIGID SUPPORT
F1.02.674 2-MCR-NI-4578	MCSR0 2ND203		VT QAL-14		10.00	RIGID SUPPORT
F1.02.675 2-MCR-NI-4004	MCSR0 2ND201		VT QAL-14		08.00	MECHANICAL SNUBBER
F1.02.676 2-MCR-NI-4005	MCSR0 2ND201		VT QAL-14		08.00	RIGID SUPPORT
F1.02.678 2-MCR-NI-4656	MCSR0 2ND201		VT QAL-14		08.00	RIGID SUPPORT
F1.02.679 2-MCR-NI-4950	MCSR0 2ND201		VT QAL-14		08.00	RIGID SUPPORT
F1.02.680 2-MCR-NI-4952	MCSR0 2ND201		VT QAL-14		08.00	RIGID SUPPORT
F1.02.966 2-MCR-SM-008	MCSR0 2SMA		VT QAL-14		42.00	RIGID SUPPORT

PROGRAM: NUCLEON-GB-QAISI02
 FILE: C007133
 PLANT: M. NUPE UNIT 2
 KEY: ITEM NUMBER FL.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 87
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REG. NUMBERS	MATERIAL TYPE/GRADE	TRICK BLOCK	DIAM./ CALIB	COMMENTS
F1.02.967	2-MCR-SM-009	MCSR0 ZSMA		VT GAL-14			34.00	RIGID SUPPORT
F1.02.968	2-MCR-SM-010	MCSR0 ZSMA		VT GAL-14			34.00	RIGID SUPPORT
F1.02.979	2-MCR-SM-009	MCSR0 ZSMA		VT GAL-14			42.00	MECHANICAL SHUBBER
F1.02.980	2-MCR-SM-090	MCSR0 ZSMA		VT GAL-14			42.00	HYDRAULIC SHUBBER
F1.02.981	2-MCR-SM-091	MCSR0 ZSMA		VT GAL-14			42.00	HYDRAULIC SHUBBER
F1.02.982	2-MCR-SM-092	MCSR0 ZSMA		VT GAL-14			42.00	CONSTANT SUPPORT
F1.02.983	2-MCR-SM-093	MCSR0 ZSMA		VT GAL-14			42.00	HYDRAULIC SHUBBER
F1.02.984	2-MCR-SM-094	MCSR0 ZSMA		VT GAL-14			42.00	HYDRAULIC SHUBBER

PROGRAM: NIS-1000-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 08
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP PROC. REG. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
F1.02.965	2-MCR-SM-095	MCSR0 2SMA		VT QAL-14		42.00		SPRING HANGER
F1.02.966	2-MCR-SM-096	MCSR0 2SMA		VT QAL-14		42.00		RIGID SUPPORT
F1.02.967	2-MCR-SM-097	MCSR0 2SMA		VT QAL-14		34.00		MECHANICAL SNUBBER
F1.02.968	2-MCR-SM-098	MCSR0 2SMA		VT QAL-14		34.00		RIGID SUPPORT
F1.02.969	2-MCR-SM-154	MCSR0 2SMA		VT QAL-14		34.00		MECHANICAL SNUBBER
F1.02.990	2-MCR-SM-155	MCSR0 2SMA		VT QAL-14		34.00		RIGID SUPPORT
F1.02.991	2-MCR-SM-156	MCSR0 2SMA		VT QAL-14		42.00		RIGID SUPPORT
F1.02.992	2-MCR-SM-157	MCSR0 2SMA		VT QAL-14		42.00		SPRING HANGER

PROGRAM: NISLING-B-QAISI02
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER FL

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 7

PAGE 09
 DATE 05/08/92

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
F1.02.995	2-MCR-SM-158	MCSR0 2SMA		VT QAL-14		42.00		HYDRAULIC SNUBBER
F1.02.994	2-MCR-SH-159	MCSR0 2SMA		VT QAL-14		42.00		HYDRAULIC SNUBBER
F1.02.995	2-MCR-SM-160	MCSR0 2SMA		VT QAL-14		42.00		CONSTANT SUPPORT
F1.02.996	2-MCR-SM-161	MCSR0 2SMA		VT QAL-14		42.00		HYDRAULIC SNUBBER
F1.02.997	2-MCR-SM-162	MCSR0 2SMA		VT QAL-14		42.00		HYDRAULIC SNUBBER
F1.02.996	2-MCR-SH-163	MCSR0 2SMA		VT QAL-14		42.00		MECHANICAL SNUBBER
F1.02.999	2-MCR-SM-174	MCSR0 2SMA		VT QAL-14		54.50		HYDRAULIC SNUBBER
F1.02.999A	2ACCA-SKIRT	MCN 1201.04-36		VT QAL-14				SAF. INJ. ACCUMULATOR TANK A SUPPORT SKIRT

4.0 Results of Inspections Performed During Outage 7

The results of each inspection shown in the final ISI Plan (Section 3 of this report) are included in this section. The completion date and status for each inspection are shown. All inspections revealing reportable indications are described in further detail in Section 5, 6, or 7 as applicable.

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

Item Number = ASME Section XI, Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWD-2500-1 (Class 3), IWF-2500-1 (Class-1, Class-2 and Class-3), and Augmented Requirements

ID Number = Unique Identification Number

Inspection Date = Date of Examination

Inspection Status

CLR = Clear

REC = Recordable

REP = Reportable

Inspection Limited

L = Limited

- = No

Geo. Ref. = Geometric Reflector

N = No

Y = Yes

Comments = General and/or Detail Description

PROGRAM: NISLOND-QA15104
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B02

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 1
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	REQ. REF.	COMMENTS
B02.011.001	2PZR-1	02/04/92	REC	L	Y	
B02.012.001	2PZR-6	02/04/92	CLR	-	N	
B02.040.002	2SCB-01-02	01/17/92	CLR	L	Y	

PROGRAM: NIS-260-0AISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B03

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 2
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B03.140.007	25GD-INLET	01/21/92	CLR	L	N	
B03.140.008	25GD-OUTLET	01/21/92	CLR	L	N	

PROGRAM: NUCLEAR-0415104
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B04

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 IN-SERVICE INSPECTION RESULTS OUTAGE 7

PAGE 3
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B04.012.001	2RPV-CRDM	03/14/92	CLR	-	N	
B04.013.001	2RPV-IMCORE	03/14/92	CLR	-	N	
B04.020.001	2PZR-HEATER	03/14/92	CLR	-	N	

PROGRAM: NIS1-AND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 4
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B05.010.001B	2RPV-M11-SE	01/16/92	CLR	-	N	_____
B05.010.002B	2RPV-M12-SE	01/16/92	CLR	-	N	_____
B05.010.003B	2RPV-M13-SE	01/16/92	CLR	-	N	_____
B05.010.004B	2RPV-M14-SE	01/16/92	CLR	-	N	_____
B05.030.005	2SGB-INLET-SE	01/23/92	CLR	L	Y	_____
B05.030.003A	2SGB-INLET-SE	01/20/92	CLR	-	N	_____
B05.030.004	2SGB-OUTLET-SE	01/23/92	CLR	L	Y	_____
B05.030.004A	2SGB-OUTLET-SE	01/17/92	CLR	-	N	_____
B05.030.006	2SGC-OUTLET-SE	01/22/92	CLR	L	N	_____
B05.030.006A	2SGC-OUTLET-SE	01/17/92	CLR	-	N	_____
B05.030.008	2SGD-OUTLET-SE	01/22/92	CLR	L	N	_____
B05.030.008A	2SGD-OUTLET-SE	01/17/92	CLR	-	N	_____
B05.050.003B	2NC2F-1-3	01/17/92	CLR	-	N	_____
B05.050.004B	2NC2F-1-8	01/16/92	CLR	-	N	_____
B05.050.008B	2NC2F-2-8	01/16/92	CLR	-	N	_____

PROGRAM: NISIROND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B05

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 5
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B05.050.011A	2NC2F-3-3	01/22/92	CLR	L	N	
B05.050.011B	2NC2F-3-3	01/20/92	CLR	-	N	
B05.050.012B	2NC2F-3-8	01/16/92	CLR	-	N	
B05.050.015A	2NC2F-4-3	01/22/92	CLR	L	N	
B05.050.015B	2NC2F-4-3	01/17/92	CLR	-	N	
B05.050.016B	2NC2F-4-8	01/16/92	CLR	-	N	

PROGRAM: NIS-ND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B06

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 6
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B06.010.037	2RPV-664-32-37	02/04/92	CLR	-	N	_____
B06.010.038	2RPV-664-32-38	02/04/92	CLR	-	N	_____
B06.010.039	2RPV-664-32-39	02/04/92	CLR	-	N	_____
B06.010.040	2RPV-664-32-40	02/04/92	CLR	-	N	_____
B06.010.041	2RPV-664-32-41	02/04/92	CLR	-	N	_____
B06.010.042	2RPV-664-32-42	02/04/92	CLR	-	N	_____
B06.010.043	2RPV-664-32-43	02/04/92	CLR	-	N	_____
B06.010.044	2RPV-664-32-44	02/04/92	CLR	-	N	_____
B06.010.045	2RPV-664-32-45	02/04/92	CLR	-	N	_____
B06.010.046	2RPV-664-32-46	02/04/92	CLR	-	N	_____
B06.010.047	2RPV-664-32-47	02/04/92	CLR	-	N	_____
B06.010.048	2RPV-664-32-48	02/04/92	CLR	-	N	_____
B06.010.049	2RPV-664-32-49	02/04/92	CLR	-	N	_____
B06.010.050	2RPV-664-32-50	02/04/92	CLR	-	N	_____
B06.010.051	2RPV-664-32-51	02/04/92	CLR	-	N	_____

PROGRAM: NIS-OND-QAISI04
 FILE: C097133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER 806

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 7
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B06.010.052	2RPV-664-32-52	02/04/92	CLR	-	N	
B06.010.053	2RPV-664-32-53	02/04/92	CLR	-	N	
B06.010.054	2RPV-664-32-54	02/04/92	CLR	-	N	
B06.030.037	2RPV-664-31-37	02/10/92	CLR	L	N	
B06.030.037A	2RPV-664-31-37	02/04/92	CLR	-	N	
B06.030.038	2RPV-664-31-38	02/10/92	CLR	L	N	
B06.030.038A	2RPV-664-31-38	02/04/92	CLR	-	N	
B06.030.039	2RPV-664-31-39	02/10/92	CLR	L	N	
B06.030.039A	2RPV-664-31-39	02/04/92	CLR	-	N	
B06.030.040	2RPV-664-31-40	02/10/92	CLR	L	N	
B06.030.040A	2RPV-664-31-40	02/04/92	CLR	-	N	
B06.030.041	2RPV-664-31-41	02/10/92	CLR	L	N	
B06.030.041A	2RPV-664-31-41	02/04/92	CLR	-	N	
B06.030.042	2RPV-664-31-42	02/10/92	CLR	L	N	
B06.030.042A	2RPV-664-31-42	02/04/92	CLR	-	N	

PROGRAM: NISLOND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KFY: ITEM NUMBER B06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 8
 DATE 05/18/92

ITEM NUMBER -----	ID NUMBER -----	INSPECTION DATE -----	INSPECTION STATUS -----	INSPECTION LIMITED -----	GEN. REF. -----	COMMENTS -----
B06.030.043	2RPV-664-31-43	02/10/92	CLR	L	N	_____
B06.030.043A	2RPV-664-31-43	02/04/92	CLR	-	N	_____
B06.030.044	2RPV-664-31-44	02/10/92	CLR	L	N	_____
B06.030.044A	2RPV-664-31-44	02/04/92	CLR	-	N	_____
B06.030.045	2RPV-664-31-45	02/10/92	CLR	L	N	_____
B06.030.045A	2RPV-664-31-45	02/04/92	CLR	-	N	_____
B06.030.046	2RPV-664-31-46	02/10/92	CLR	L	N	_____
B06.030.046A	2RPV-664-31-46	02/04/92	CLR	-	N	_____
B06.030.047	2RPV-664-31-47	02/10/92	CLR	L	N	_____
B06.030.047A	2RPV-664-31-47	02/04/92	CLR	-	N	_____
B06.030.048	2RPV-664-31-48	02/10/92	CLR	L	N	_____
B06.030.048A	2RPV-664-31-48	02/04/92	CLR	-	N	_____
B06.030.049	2RPV-664-31-49	02/10/92	CLR	L	N	_____
B06.030.049A	2RPV-664-31-49	02/04/92	CLR	-	N	_____
B06.030.050	2RPV-664-31-50	02/10/92	CLR	L	N	_____

PROGRAM: NISLAND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B06

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 9
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B06.030.050A	2RPV-664-31-50	02/04/92	CLR	-	N	_____
B06.030.051	2RPV-664-31-51	02/10/92	CLR	L	N	_____
B06.030.051A	2RPV-664-31-51	02/04/92	CLR	-	N	_____
B06.030.052	2RPV-664-31-52	02/10/92	CLR	L	N	_____
B06.030.052A	2RPV-664-31-52	02/04/92	CLR	-	N	_____
B06.030.053	2RPV-664-31-53	02/10/92	CLR	L	N	_____
B06.030.053A	2RPV-664-31-53	02/04/92	CLR	-	N	_____
B06.030.054	2RPV-664-31-54	02/10/92	CLR	L	N	_____
B06.030.054A	2RPV-664-31-54	02/04/92	CLR	-	N	_____
B06.050.037	2RPV-664-33-37	02/06/92	CLR	-	N	_____
B06.050.038	2RPV-664-33-38	02/06/92	CLR	-	N	_____
B06.050.039	2RPV-664-33-39	02/06/92	CLR	-	N	_____
B06.050.040	2RPV-664-33-40	02/06/92	CLR	-	N	_____
B06.050.041	2RPV-664-33-41	02/06/92	CLR	-	N	_____
B06.050.042	2RPV-664-33-42	02/06/92	CLR	-	N	_____

PROGRAM: NISIROND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B06

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 10
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B06.050.043	2RPV-664-33-43	02/06/92	CLR	-	N	_____
B06.050.044	2RPV-664-33-44	02/06/92	CLR	-	N	_____
B06.050.045	2RPV-664-33-45	02/06/92	CLR	-	N	_____
B06.050.046	2RPV-664-33-46	02/06/92	CLR	-	N	_____
B06.050.047	2RPV-664-33-47	02/06/92	CLR	-	N	_____
B06.050.048	2RPV-664-33-48	02/06/92	CLR	-	N	_____
B06.050.049	2RPV-664-33-49	02/06/92	CLR	-	N	_____
B06.050.050	2RPV-664-33-50	02/06/92	CLR	-	N	_____
B06.050.051	2RPV-664-33-51	02/06/92	CLR	-	N	_____
B06.050.052	2RPV-664-33-52	02/06/92	CLR	-	N	_____
B06.050.053	2RPV-664-33-53	02/06/92	CLR	-	N	_____
B06.050.054	2RPV-664-33-54	02/06/92	CLR	-	N	_____
B06.180.002	2RCP-2B-F	01/31/92	CLR	-	N	_____

PROGRAM: NISWIND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUNE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 11
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B07.030.001	25GA-HH-MX	03/06/92	CLR	-	N	
B07.030.002	25GA-HH-ZH	03/06/92	CLR	-	N	
B07.030.003	25GB-HH-XY	03/10/92	CLR	-	N	ADDED PER IMB-24301A1
B07.030.004	25GB-HH-YZ	03/10/92	CLR	-	N	ADDED PER IMB-24301A1
B07.030.005	25GC-HH-MX	02/20/92	REP	-	N	PIR # 2-M92-0066
B07.030.006	25GC-HH-ZH	02/20/92	REP	-	N	PIR # 2-M92-0066
B07.030.007	25GD-HH-XY	02/22/92	CLR	-	N	
B07.030.008	25GD-HH-YZ	02/22/92	CLR	-	N	
B07.050.103	2MW282-FL1	03/09/92	CLR	-	N	
B07.070.001	2MC-1	01/22/92	CLR	-	N	
B07.070.002	2MC-2	01/24/92	CLR	-	N	
B07.070.003	2MC-3	01/22/92	CLR	-	N	
B07.070.050	2MI-70	01/24/92	CLR	-	N	
B07.070.051	2MI-71	03/01/92	CLR	-	N	
B07.070.058	2MI-125	01/24/92	CLR	-	N	

PROGRAM: NISLW010-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B07

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 12
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GE0. REF.	COMMENTS
B07.070.060	ZMI-175	01/18/92	CLR	-	N	
B07.070.061	ZMI-176	01/18/92	CLR	-	N	
B07.070.062	ZMI-180	01/20/92	CLR	-	N	
B07.070.063	ZMI-181	01/18/92	CLR	-	N	
B07.070.064	ZMI-129	01/24/92	CLR	-	N	
B07.070.065	ZMI-134	03/05/92	CLR	-	N	
B07.070.203	ZMW-15	02/01/92	CLR	-	N	

PROGRAM: NIS-20-GAISID4
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B08

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 13
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEØ. REF.	COMMENTS
B08.020.001	2PZR-SKIRT	01/30/92	CLR	-	N	

PROGRAM: NISFORM-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 14
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEQ. REF.	COMMENTS
B09.011.014	2NC2F-2-4	01/23/92	CLR	L	N	
B09.011.014A	2NC2F-2-4	01/20/92	CLR	-	N	
B09.011.015	2NCM-17365-1	01/23/92	CLR	L	N	
B09.011.015A	2NCM-17365-1	01/20/92	CLR	-	N	
B09.011.016	2NCM-3671-1	01/23/92	CLR	L	N	
B09.011.016A	2NCM-3671-1	01/20/92	CLR	-	N	
B09.011.304	2ND2F-12	01/24/92	CLR	L	Y	
B09.011.304A	2ND2F-12	01/22/92	CLR	-	N	
B09.011.429	2NI2FM26-7	01/24/92	CLR	L	Y	
B09.011.429A	2NI2FM26-7	01/22/92	CLR	-	N	
B09.011.430	2NI2FM26-16	01/24/92	CLR	L	Y	
B09.011.430A	2NI2FM26-16	01/22/92	CLR	-	N	
B09.021.041	2NC2FW45-5	01/30/92	CLR	-	N	
B09.040.027	2NC2FW45-6	01/30/92	CLR	-	N	
B09.040.028	2NC2FW45-10	01/30/92	CLR	-	N	

PROGRAM: NISLOND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER 809

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 15
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B09.040.058	2NI2FW43-4	01/30/92	CLR	-	N	_____
B09.040.121	2NI2FW109-1	01/22/92	CLR	-	N	_____
B09.040.123	2NI2FW109-12	01/22/92	CLR	-	N	_____
B09.040.125	2NI2FW115-9	01/22/92	CLR	-	N	_____
B09.040.127	2NI2FW115-17	01/22/92	CLR	-	N	_____
B09.040.130	2NI2FW116-11	01/22/92	CLR	-	N	_____
B09.040.131	2NI2FW116-14	01/22/92	CLR	-	N	_____
B09.040.132	2NI2FW116-19	01/22/92	CLR	-	N	_____
B09.040.150	2NV2FW102-1	01/22/92	CLR	-	N	_____
B09.040.151	2NV2FW102-2	01/30/92	CLR	-	N	_____
B09.040.152	2NV2FW102-3	01/30/92	CLR	-	N	_____
B09.040.153	2NV2FW102-4	01/30/92	CLR	-	N	_____
B09.040.154	2NV2FW102-5	01/22/92	CLR	-	N	_____
B09.040.155	2NV2FW102-6	01/22/92	CLR	-	N	_____
B09.040.156	2NV2FW102-7	01/30/92	CLR	-	N	_____

PROGRAM: NISI-UND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER B09

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 16
DATE 05/18/92

ITEM NUMBER -----	ID NUMBER -----	INSPECTION DATE -----	INSPECTION STATUS -----	INSPECTION LIMITED -----	GEN. REF. -----	COMMENTS -----
B09.040.157	2NV2FH102-8	01/22/92	CLR	-	N	_____
B09.040.158	2NV2FH102-9	01/22/92	CLR	-	N	_____

PROGRAM: NISACOND-QAISI04
 FILE: C097153
 PLANT: MCQUIRE UNIT 2
 KEY: ITEM NUMBER B12

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCQUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 17
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B12.040.001A	ZMC-1	01/22/92	CLR	-	N	
B12.040.001B	ZMC-2	01/24/92	CLR	-	N	
B12.040.001C	ZMC-3	01/22/92	CLR	-	N	
B12.040.002B	ZMD-2A.C	02/04/92	CLR	-	N	

PROGRAM: MIS-AD-QA15104
FILE: C007135
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER 014

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 18
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEOP. REF.	COMMENTS
814.010.022	ZRPV-CRDM76	01/30/92	CLR	-	N	

PROGRAM: NISLOND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 19
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B15.011.001	2RPV	03/14/92	CLR	-	N	
B15.021.001	2PZR	03/14/92	CLR	-	N	
B15.031.001	2SG-2A	03/14/92	CLR	-	N	
B15.031.002	2SG-2B	03/14/92	CLR	-	N	
B15.031.003	2SG-2C	03/14/92	CLR	-	N	
B15.031.004	2SG-2D	03/14/92	CLR	-	N	
B15.050.007	2MC-2561-1.0	03/14/92	CLR	-	N	PARTIAL
B15.050.009	2MC-2562-2.0	03/14/92	CLR	-	N	PARTIAL
B15.050.010	2MC-2562-2.1	03/14/92	CLR	-	N	PARTIAL
B15.050.011	2MC-2562-3.0	03/14/92	CLR	-	N	PARTIAL
B15.050.012	2MC-2562-3.1	03/14/92	CLR	-	N	
B15.051.001	2MC-2553-1.0	03/14/92	CLR	-	N	
B15.051.002	2MC-2553-2.0	03/14/92	CLR	-	N	
B15.051.004	2MC-2554-1.0	03/14/92	CLR	-	N	
B15.051.005	2MC-2554-1.1	03/14/92	CLR	-	N	

PROGRAM: NISLOND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 20
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B15.051.006	2MC-2554-1.2	03/14/92	CLR	-	N	
B15.051.007	2MC-2561-1.0	03/14/92	CLR	-	N	PARTIAL
B15.051.008	2MC-2562-1.0	03/14/92	CLR	-	N	
B15.051.009	2MC-2562-2.0	03/14/92	CLR	-	N	PARTIAL
B15.051.010	2MC-2562-2.1	03/14/92	CLR	-	N	PARTIAL
B15.051.011	2MC-2562-3.0	03/14/92	CLR	-	N	PARTIAL
B15.061.001	2RPC-2A	03/14/92	CLR	-	N	
B15.061.002	2RPC-2B	03/14/92	CLR	-	N	
B15.061.003	2RPC-2C	03/14/92	CLR	-	N	
B15.061.004	2RPC-2D	03/14/92	CLR	-	N	

PROGRAM: NISABOND-GA1S104
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER B16

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 21
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
B16.021.001	25GA-TUBES	01/29/92	REP	-	N	
B16.022.001	25GB-TUBES	02/03/92	REP	-	N	
B16.023.001	25GC-TUBES	01/28/92	REP	-	N	
B16.024.001	25GD-TUBES	02/04/92	REP	-	N	

PROGRAM: NISI/OND-QAISI04
FILE: CC07133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER C01

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 22
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C01.010.003	2SGC-04B-05	01/30/92	CLR	L	Y	_____
C01.010.004	2SGC-05-06A	02/06/92	CLR	L	N	_____
C01.010.005	2SGC-66B-07	02/12/92	REC	L	N	_____

PROGRAM: NISROHD-QAISI06
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C03

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 23
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C03.040.002	2-HCR-CF-189	01/22/92	CLR	-	N	
C03.040.003	2-HCR-CF-210	01/22/92	CLR	-	N	
C03.040.025	2-HCR-SM-10	01/22/92	CLR	-	N	
C03.040.028	2-HCR-SM-98	01/22/92	CLR	-	N	

PROGRAM: NIS AND-GAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 24
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTOR	REG. DEF.	COMMENTS
C05.011.010	2CA2FW49-5	01/14/92	CLR		N	
C05.011.011	2CA2FW49-23	01/14/92	CLR		N	
C05.011.353	2NI2F-582	01/22/92	CLR		N	
C05.011.371	2RN2F-1496	01/22/92	CLR		N	
C05.011.372	2RN2F-1497	01/22/92	CLR		N	
C05.011.553	2SA2FW9-19	01/14/92	CLR		N	
C05.011.554	2SA2FW9-18	01/14/92	CLR		N	
C05.011.555	2SA2FW9-20	01/14/92	CLR		N	
C05.011.578	2SM2FW12-32	01/14/92	CLR		N	
C05.011.579	2SM2FW12-33	01/14/92	CLR		N	
C05.011.812	2VQ2FW8-1	01/22/92	CLR		N	
C05.011.813	2VQ2FW8-12	01/15/92	CLR		N	
C05.011.814	2VQ2FW8-13	01/15/92	CLR		N	
C05.011.815	2VQ2FW8-7	01/22/92	CLR		N	
C05.011.816	2VQ2FW8-19	01/27/92	CLR		N	

PROGRAM: NISI AND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 25
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C05.011.817	2VQ2FM8-20	01/15/92	CLR	-	N	
C05.012.803	2VQ2FM7-21	01/15/92	CLR	-	N	
C05.021.050	2CF2FM13-1	01/22/92	CLR	L	Y	
C05.021.050A	2CF2FM13-1	01/22/92	CLR	-	N	
C05.021.051	2CF2FM13-4	01/22/92	CLR	L	N	
C05.021.051A	2CF2FM13-4	01/22/92	CLR	-	N	
C05.021.052	2CF2FM13-12	01/22/92	CLR	L	Y	
C05.021.052A	2CF2FM13-12	01/22/92	CLR	-	N	
C05.021.053	2CF2FM13-15	01/22/92	CLR	L	N	
C05.021.053A	2CF2FM13-15	01/22/92	CLR	-	N	
C05.021.054	2CF2FM15-1	01/22/92	CLR	L	Y	
C05.021.054A	2CF2FM15-1	01/22/92	CLR	-	N	
C05.021.055	2CF2FM15-4	01/22/92	CLR	L	Y	
C05.021.055A	2CF2FM15-4	01/22/92	CLR	-	N	
C05.021.056	2CF2FM15-12	01/22/92	CLR	L	Y	

PROGRAM: NISIRONG-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 26
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
C05.021.056A	2CF2FM15-12	01/22/92	CLR	-	N	
C05.021.057	2CF2FM15-15	01/22/92	CLR	L	Y	
C05.021.057A	2CF2FM15-15	01/22/92	CLR	-	N	
C05.021.200	2ND2F-19	01/24/92	CLR	L	Y	
C05.021.200A	2ND2F-19	01/22/92	CLR	-	N	
C05.021.376	2NI2FM26-1	01/24/92	CLR	-	Y	
C05.021.376A	2NI2FM26-1	01/22/92	CLR	-	N	
C05.021.377	2NI2FM26-12	01/24/92	CLR	L	Y	
C05.021.377A	2NI2FM26-12	01/22/92	CLR	-	N	
C05.021.378	2NI2FM26-27	01/24/92	CLR	L	Y	
C05.021.378A	2NI2FM26-27	01/22/92	CLR	-	N	
C05.021.676	2SM2F-100	01/30/92	CLR	L	Y	
C05.021.676A	2SM2F-100	01/24/92	CLR	-	N	
C05.021.678	2SM2F-98	01/29/92	CLR	L	Y	
C05.021.678A	2SM2F-98	01/24/92	CLR	-	N	

PROGRAM: NISIROND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER D01

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 27
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
001.012.002	2MC-2554-2.0	02/03/92	CLR	-	N	PARTIAL
001.012.004	2MC-2554-4.0	02/03/92	REC	-	N	_____
001.012.005	2MC-2554-5.0	02/25/92	CLR	-	N	_____
001.012.007	2MC-2556-3.0	01/28/92	CLR	-	N	_____
001.012.008	2MC-1554-5.0	02/25/92	CLR	-	N	_____
001.012.009	2MC-1556-1.0	01/28/92	CLR	-	N	_____
001.012.010	2MC-1556-1.1	01/28/92	CLR	-	N	_____
001.012.011	2MC-2555-1.0	02/03/92	REC	-	N	_____

PROGRAM: NISI AND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER 002

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 28
 DATE 05/18/92

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
002.011.020	2MC-2609-1.0	02/26/91	CLR	-	N	_____
002.011.021	2MC-2609-1.1	02/07/91	CLR	-	N	_____
002.011.022	2MC-2609-2.0	02/26/91	CLR	-	N	_____
002.011.023	2MC-2609-2.1	02/07/91	CLR	-	N	_____
002.011.035	2MC-2609-4.0	02/11/91	CLR	-	N	PARTIAL
002.011.036	2MC-2565-1.1	02/12/91	CLR	-	N	_____
002.011.037	2MC-2609-6.0	02/11/91	CLR	-	N	_____
002.011.038	2MC-1567-1.0	02/12/91	CLR	-	N	_____
002.012.002	2MC-2573-1.0	02/13/92	CLR	-	N	_____
002.012.003	2MC-2573-1.1	02/13/92	REC	-	H	PARTIAL
002.012.004	2MC-2573-2.0	01/21/92	CLR	-	N	PARTIAL
002.012.005	2MC-2573-2.1	01/21/92	CLR	-	N	PARTIAL
002.012.006	2-MC-1573-2.2	01/21/92	CLR	-	N	_____
002.012.007	2MC-2573-3.0	01/16/92	CLR	-	N	_____
002.012.008	2MC-2573-3.1	01/16/92	CLR	-	N	_____

PROGRAM: NISLAND-QAISI04
FILE: C007133
PLANT: HCGUIRE UNIT 2
KEY: ITEM NUMBER D02

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
HCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 29
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
D02.012.009	2MC-2573-4.0	01/21/92	CLR	-	N	PARTIAL
D02.012.011	2MC-2574-1.1	02/21/92	CLR	-	N	PARTIAL
D02.012.012	2MC-2574-2.0	01/20/92	CLR	-	N	PARTIAL
D02.012.014	2MC-2574-3.0	02/15/92	CLR	-	N	PARTIAL
D02.012.016	2MC-2574-4.0	02/21/92	CLR	-	N	_____
D02.012.018	2MC-2592-1.1	01/20/92	REC	-	N	PARTIAL
D02.012.019	2MC-2593-1.2	02/28/92	REC	-	N	PARTIAL
D02.012.022	2MC-2609-2.0	02/06/92	REC	-	N	PARTIAL
D02.012.023	2MC-2609-2.1	02/20/92	CLR	-	N	PARTIAL
D02.012.024	2MC-2609-3.0	10/06/91	CLR	-	N	_____
D02.012.025	2MC-2609-3.1	08/27/91	CLR	-	N	_____
D02.012.028	2MC-1573-4.0	01/21/92	CLR	-	N	_____
D02.012.033	2MC-2609-4.0	02/19/92	REC	-	N	_____

PROGRAM: NIS100-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER E01

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 30
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
E01.001.001	2RCP-2A	02/17/92	CLR	-	N	
E01.001.002	2RCP-2B	01/30/92	CLR	-	N	
E01.001.004	2RCP-2D	02/24/92	CLR	-	N	

PROGRAM: NIS-00-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER E04

Duke Power Company
Quality Assurance Department
Pre-Service and In-Service Inspection System
McGuire 2 Inservice Inspection Results Outage 7

PAGE 31
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
E04.001.010	2568	02/14/92	CLR	L	N	

PROGRAM: NISIR 10-QAISI04
 FILE: C007133
 PLANT: HCGUIRE UNIT 2
 KEY: ITEM NUMBER E06

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 HCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 32
 DATE 05/18/92

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEN. REF. =====	COMMENTS =====
E06.001.001	2NC2FW39-1	02/03/92	CLR	L	N	_____
E06.001.002	2NCP75-1	02/03/92	CLR	-	N	_____
E06.001.003	2NC2FW39-2	02/03/92	CLR	L	N	_____
E06.001.004	2NC2FW40-11	02/03/92	CLR	L	N	_____
E06.001.005	2NCP192-1	02/03/92	CLR	-	N	_____
E06.001.006	2NC2FW40-12	02/03/92	CLR	L	N	_____
E06.001.007	2NC2FW40-13	02/03/92	CLR	L	N	_____
E06.001.008	2NC2FW40-14	02/03/92	CLR	L	N	_____
E06.001.009	2NC2FW43-1	02/03/92	CLR	L	N	_____
E06.001.010	2NCP193-1	02/03/92	CLR	-	N	_____
E06.001.011	2NC2FW43-2	02/03/92	CLR	L	N	_____
E06.001.012	2NC2FW43-3	02/03/92	CLR	L	N	_____
E06.001.013	2NC2FW45-5	02/03/92	CLR	L	N	_____
E06.001.014	2NCP82-1	___/___/___		-	-	SEE SECT.10 FOR EXCEPTION REQ.
E06.001.015	2NC2FW45-6	02/03/92	CLR	L	N	_____

PROGRAM: NISIR001-GAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER E06

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 33
DATE 05/18/92

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEN. REF. =====	COMMENTS =====
E06.001.016	2NC2FW45-7	02/03/92	CLR	L	N	_____
E06.001.017	2NCP83-1	__/__/__		-	-	SEE SECT.10 FOR EXCEPTION REQ.

PROGRAM: NISLOND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER E07

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 34
DATE 05/18/92

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEØ. REF. =====	COMMENTS =====
E07.001.001	2NI2FHLT5040-4	01/22/92	CLR	-	N	_____
E07.001.002	2NI2FHLT5040-8	01/22/92	CLR	-	N	_____
E07.001.003	2NI2FHLT5050-4	01/22/92	CLR	-	N	_____
E07.001.004	2NI2FHLT5050-8	01/22/92	CLR	-	N	_____
E07.001.005	2NI2FHLT5060-4	01/22/92	CLR	-	N	_____
E07.001.006	2NI2FHLT5060-8	01/22/92	CLR	-	N	_____
E07.001.007	2NI2FHLT5070-4	01/22/92	CLR	-	N	_____
E07.001.008	2NI2FHLT5070-8	01/22/92	CLR	-	N	_____
E07.001.009	2NI2FHLT5080-4	01/22/92	CLR	-	N	_____
E07.001.010	2NI2FHLT5080-8	01/22/92	CLR	-	N	_____
E07.001.011	2NI2FHLT5090-4	01/22/92	CLR	-	N	_____
E07.001.012	2NI2FHLT5090-8	01/22/92	CLR	-	N	_____
E07.001.013	2NI2FHLT5100-4	01/22/92	CLR	-	N	_____
E07.001.014	2NI2FHLT5100-8	01/22/92	CLR	-	N	_____
E07.001.015	2NI2FHLT5110-4	01/22/92	CLR	-	N	_____

PROGRAM: NIS-40-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER E07

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 35
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
E07.001.016	2N1ZFMLT5110-8	01/22/92	CLR	-	N	

PROGRAM: NISI-ND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 36
 DATE 05/18/92

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEN. REF. =====	COMMENTS =====
F1.01.117	2-MCR-NC-4223	01/16/92	CLR	-	N	_____
F1.01.118	2-MCR-NC-4224	01/16/92	CLR	-	N	_____
F1.01.119	2-MCR-NC-4225	01/17/92	REC	-	N	_____
F1.01.120	2-MCR-NC-4226	01/16/92	CLR	-	N	_____
F1.01.121	2-MCR-NC-4125	01/17/92	CLR	-	N	_____
F1.01.122	2-MCR-NC-4227	01/17/92	CLR	-	N	_____
F1.01.123	2-MCR-NC-4230	01/17/92	CLR	-	N	_____
F1.01.124	2-MCR-NC-4231	01/17/92	CLR	-	N	_____
F1.01.141	2-MCR-NC-4163	01/17/92	CLR	-	N	_____
F1.01.142	2-MCR-NC-4164	01/17/92	REC	-	N	_____
F1.01.143	2-MCR-NC-4165	01/17/92	CLR	-	N	_____
F1.01.144	2-MCR-NC-4001	01/17/92	CLR	-	N	_____
F1.01.147	2-MCR-NC-4072	01/17/92	CLR	-	N	_____
F1.01.151	2-MCR-NC-4091	01/17/92	CLR	-	N	_____
F1.01.152	2-MCR-NC-4092	01/17/92	CLR	-	N	_____

PROGRAM: NISL-ND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 37
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.01.204	2-MCR-ND-4006	01/27/92	REC	-	N	
F1.01.205	2-MCR-ND-4500	01/16/92	REC	-	N	
F1.01.206	2-MCR-ND-4501	01/27/92	CLR	-	N	
F1.01.314	2-MCR-NI-4946	01/27/92	CLR	-	N	
F1.01.331	2-MCR-NI-4528	01/27/92	CLR	-	N	
F1.01.332	2-MCR-NI-4537	01/24/92	CLR	-	N	
F1.01.334	2-MCR-NI-4611	01/27/92	CLR	-	N	
F1.01.335	2-MCR-NI-4612	01/17/92	CLR	-	N	
F1.01.336	2-MCR-NI-4614	01/16/92	CLR	-	N	
F1.01.337	2-MCR-NI-4615	01/16/92	CLR	-	N	
F1.01.338	2-MCR-NI-4617	01/16/92	CLR	-	N	
F1.01.339	2-MCR-NI-4008	01/18/92	CLR	-	N	
F1.01.343	2-MCR-NI-4035	01/17/92	CLR	-	N	
F1.01.348	2-MCR-NI-4547	01/18/92	CLR	-	N	
F1.01.349	2-MCR-NI-4548	01/18/92	CLR	-	N	

PROGRAM: NISIROND-QAISI04
FILE: C007133
PLANT: MCGUIPE UNIT 2
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 38
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEOT. REF.	COMMENTS
F1.01.350	2-MCR-NI-4549	01/18/92	CLR	-	N	
F1.01.362	2-MCR-NI-4569	01/17/92	CLR	-	N	
F1.01.363	2-MCR-NI-4570	01/17/92	CLR	-	N	
F1.01.364	2-MCR-NI-4571	01/17/92	CLR	-	N	
F1.01.366	2-MCR-NI-4577	01/18/92	CLR	-	N	
F1.01.368	2-MCR-NI-4580	01/17/92	CLR	-	N	
F1.01.369	2-MCR-NI-4581	01/17/92	CLR	-	N	
F1.01.370	2-MCR-NI-4582	01/18/92	CLR	-	N	
F1.01.371	2-MCR-NI-4585	01/17/92	CLR	-	N	
F1.01.372	2-MCR-NI-4586	01/17/92	CLR	-	N	
F1.01.373	2-MCR-NI-4588	01/18/92	CLR	-	N	
F1.01.374	2-MCR-NI-4589	01/18/92	CLR	-	N	
F1.01.505	2-MCR-NI-4913	02/01/92	CLR	-	N	
F1.01.521	2-MCR-NI-4122	01/16/92	CLR	-	N	
F1.01.697	2-MCR-NV-4103	01/17/92	CLR	-	N	

PROGRAM: NISL-40-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 39
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEOR. REF.	COMMENTS
F1.01.698	2-MCR-NV-4104	01/16/92	CLR	-	N	
F1.01.699	2-MCR-NV-4105	01/27/92	CLR	-	N	
F1.01.700	2-MCR-NV-4106	01/27/92	CLR	-	N	
F1.01.701	2-MCR-NV-4108	01/16/92	CLR	-	N	
F1.01.702	2-MCR-NV-4109	01/16/92	CLR	-	N	
F1.01.703	2-MCR-NV-4110	01/17/92	CLR	-	N	
F1.01.704	2-MCR-NV-4001	01/17/92	CLR	-	N	
F1.01.705	2-MCR-NV-4002	01/17/92	CLR	-	N	
F1.01.706	2-MCR-NV-4003	01/17/92	CLR	-	N	
F1.01.708	2-MCR-NV-4006	01/24/92	CLR	-	N	
F1.01.715	2-MCR-NV-4321	01/20/92	CLR	-	N	
F1.01.716	2-MCR-NV-4322	01/20/92	CLR	-	N	
F1.01.717	2-MCR-NV-4323	01/20/92	CLR	-	N	
F1.01.723	2-MCR-NV-4329	01/19/92	CLR	-	N	
F1.01.724	2-MCR-NV-4330	02/05/92	CLR	-	N	

PROGRAM: NISLORD-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 40
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
F1.01.736	2PZR-SKIRT	02/10/92	CLR	-	N	
F1.01.739	2PZR-SUPPORT	02/10/92	REC	-	N	
F1.01.740	2SGA-COLUMNS	03/05/92	CLR	-	N	
F1.01.741	2SGD-SUPPORT	01/23/92	CLR	-	N	
F1.02.046	2-MCR-CA-093	01/22/92	CLR	-	N	
F1.02.048	2-MCR-CA-096	01/19/92	CLR	-	N	
F1.02.051	2-MCR-CA-100	01/17/92	CLR	-	N	
F1.02.052	2-MCR-CA-102	01/17/92	CLR	-	N	
F1.02.053	2-MCR-CA-103	01/17/92	CLR	-	N	
F1.02.054	2-MCR-CA-104	01/17/92	CLR	-	N	
F1.02.055	2-MCR-CA-168	01/17/92	CLR	-	N	
F1.02.064	2-MCR-CA-149	01/18/92	CLR	-	N	
F1.02.065	2-MCR-CA-150	01/19/92	CLR	-	N	
F1.02.066	2-MCR-CA-151	01/23/92	CLR	-	N	
F1.02.067	2-MCR-CA-156	01/19/92	REC	-	N	

PROGRAM: NIS1 AND-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 41
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.02.068	2-MCR-CA-158	01/19/92	CLR	-	N	
F1.02.069	2-MCR-CA-159	01/19/92	CLR	-	N	
F1.02.173	2-MCR-VQ-4509	01/28/92	CLR	-	N	
F1.02.174	2-MCR-VQ-4510	01/28/92	CLR	-	N	
F1.02.175	2-MCR-VQ-4511	01/28/92	CLR	-	N	
F1.02.176	2-MCR-VQ-4512	01/28/92	CLR	-	N	
F1.02.177	2-MCR-VQ-4513	01/28/92	REC	-	N	
F1.02.222	2-MCA-CF-207	01/15/92	CLR	-	N	
F1.02.223	2-MCA-CF-208	01/15/92	CLR	-	N	
F1.02.224	2-MCR-CF-158	01/24/92	CLR	-	N	
F1.02.225	2-MCR-CF-159	01/16/92	CLR	-	N	
F1.02.227	2-MCR-CF-174	01/24/92	CLR	-	N	
F1.02.228	2-MCR-CF-175	01/24/92	CLR	-	N	
F1.02.229	2-MCR-CF-188	01/23/92	CLR	-	N	
F1.02.230	2-MCR-CF-189	01/23/92	CLR	-	N	

PROGRAM: NISIROND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 42
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
F1.02.231	2-MCF-CF-209	02/06/92	REC	-	N	_____
F1.02.232	2-MCR-CF-210	02/06/92	CLR	-	N	_____
F1.02.233	2-MCR-CF-302	01/27/92	CLR	-	N	_____
F1.02.356	2-MCA-SV-010	01/15/92	REC	-	N	_____
F1.02.360	2-MCA-SV-060	01/15/92	CLR	-	N	_____
F1.02.365	2-MCA-SA-5163	01/15/92	CLR	-	N	_____
F1.02.367	2-MCA-SA-5084	01/15/92	CLR	-	N	_____
F1.02.368	2-MCA-SA-5187	01/15/92	CLR	-	N	_____
F1.02.638	2-MCR-NI-4031	01/18/92	CLR	-	N	_____
F1.02.654	2-MCA-NI-5040	02/13/92	CLR	-	N	_____
F1.02.655	2-MCA-NI-5041	02/13/92	CLR	-	N	_____
F1.02.656	2-MCR-NI-4032	01/18/92	CLR	-	N	_____
F1.02.657	2-MCR-NI-4034	01/18/92	CLR	-	N	_____
F1.02.658	2-MCR-NI-4544	01/18/92	CLR	-	N	_____
F1.02.659	2-MCR-NI-4551	01/18/92	CLR	-	N	_____

PROGRAM: NISIRAND-QAISIO6
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 43
 DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEN. REF.	COMMENTS
F1.02.660	2-MCR-NI-4552	01/10/92	CLR	-	N	
F1.02.661	2-MCR-NI-4553	01/18/92	CLR	-	N	
F1.02.662	2-MCR-NI-4554	01/18/92	CLR	-	N	
F1.02.663	2-MCR-NI-4556	01/18/92	CLR	-	N	
F1.02.664	2-MCR-NI-4557	01/18/92	CLR	-	N	
F1.02.665	2-MCR-NI-4558	01/18/92	CLR	-	N	
F1.02.666	2-MCR-NI-4559	01/17/92	CLR	-	N	
F1.02.667	2-MCR-NI-4560	01/18/92	CLR	-	N	
F1.02.668	2-MCR-NI-4561	01/18/92	CLR	-	N	
F1.02.669	2-MCR-NI-4563	01/18/92	CLR	-	N	
F1.02.670	2-MCR-NI-4540	01/18/92	CLR	-	N	
F1.02.671	2-MCR-NI-4541	01/18/92	CLR	-	N	
F1.02.672	2-MCR-NI-4542	01/18/92	CLR	-	N	
F1.02.673	2-MCR-NI-4573	01/18/92	CLR	-	N	
F1.02.674	2-MCR-NI-4578	01/18/92	CLR	-	N	

PROGRAM: NISLOND-QAISI04
FILE: C007133
PLANT: MCGUIRE UNIT 2
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
QUALITY ASSURANCE DEPARTMENT
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 44
DATE 05/18/92

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEQ. REF.	COMMENTS
F1.02.675	2-MCR-NI-4004	02/05/92	CLR	-	N	
F1.02.676	2-MCR-NI-4005	01/18/92	CLR	-	N	
F1.02.678	2-MCR-NI-4656	01/18/92	CLR	-	N	
F1.02.679	2-MCR-NI-4950	01/18/92	CLR	-	N	
F1.02.680	2-MCR-NI-4952	01/18/92	CLR	-	N	
F1.02.966	2-MCR-SM-008	01/23/92	REC	-	N	
F1.02.967	2-MCR-SM-009	01/18/92	CLR	-	N	
F1.02.968	2-MCR-SM-010	01/18/92	CLR	-	N	
F1.02.979	2-MCR-SM-089	01/23/92	CLR	-	N	
F1.02.980	2-MCR-SM-090	01/23/92	CLR	-	N	
F1.02.981	2-MCR-SM-091	01/23/92	CLR	-	N	
F1.02.982	2-MCR-SM-092	01/23/92	CLR	-	N	
F1.02.983	2-MCR-SM-093	01/24/92	CLR	-	N	
F1.02.984	2-MCR-SM-094	01/23/92	CLR	-	N	
F1.02.985	2-MCR-SM-095	01/23/92	CLR	-	N	

PROGRAM: NIS 70-QAISI04
 FILE: C007133
 PLANT: MCGUIRE UNIT 2
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY
 QUALITY ASSURANCE DEPARTMENT
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM
 MCGUIRE 2 INSERVICE INSPECTION RESULTS OUTAGE 7

PAGE 45
 DATE 05/18/92

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.02.986	2-MCR-SM-096	01/17/92	CLR	-	N	_____
F1.02.987	2-MCR-SM-097	01/17/92	CLR	-	N	_____
F1.02.988	2-MCR-SM-098	01/17/92	CLR	-	N	_____
F1.02.989	2-MCR-SM-154	01/24/92	REC	-	N	_____
F1.02.990	2-MCR-SM-155	01/24/92	CLR	-	N	_____
F1.02.991	2-MCR-SM-156	01/24/92	CLR	-	N	_____
F1.02.992	2-MCR-SM-157	01/24/92	REC	-	N	_____
F1.02.993	2-MCR-SM-158	01/23/92	CLR	-	N	_____
F1.02.994	2-MCR-SM-159	01/18/92	CLR	-	N	_____
F1.02.995	2-MCR-SM-160	01/24/92	REC	-	N	_____
F1.02.996	2-MCR-SM-161	01/18/92	CLR	-	N	_____
F1.02.997	2-MCR-SM-162	01/18/92	CLR	-	N	_____
F1.02.998	2-MCR-SM-163	01/18/92	CLR	-	N	_____
F1.02.999	2-MCR-SM-174	01/22/92	CLR	-	N	_____
F1.02.999A	2ACCA-SKIRT	01/18/92	CLR	-	N	_____

5.0 Class 1 Inspection Results

Examinations were performed during Outage 7 on the Reactor Vessel, Pressurizer, Steam Generators 2A, 2B, 2C and 2D, Class 1 Piping of the Reactor Coolant, Residual Heat Removal and Safety Injection Systems, Reactor Coolant Pump 2B, Valve Bolting, Internal Surfaces and on Class 1 Component Supports.

5.1 Reactor Vessel

Seventy-eight (78) CRDM Tube to Upper Head Welds received a visual examination. Fifty-eight (58) Incore Instrument Tube to Lower Head Welds received a visual examination. No reportable conditions were found.

Four (4) Reactor Vessel Nozzle to Safe End Butt Welds received a dye penetrant examination. No reportable conditions were found.

Eighteen (18) Closure Head Nuts received a magnetic particle examination. Eighteen (18) Closure Studs received an ultrasonic and a magnetic particle examination. Eighteen (18) Closure Washers received a visual examination. No reportable indications or conditions were found.

One (1) Reactor Vessel CRD Housing Weld received a dye penetrant examination. No reportable indications were found.

5.2 Pressurizer

Pressurizer Lower Head to Shell Circumferential and Longitudinal Welds received an ultrasonic examination. No reportable indications were found.

Seventy-eight (78) Pressurizer Heater Penetrations to Lower Head Welds received a visual examination. No reportable conditions were found.

Pressurizer Support Skirt to Lower Head Weld received a magnetic particle examination. No reportable indications were found.

5.3 Steam Generators

Steam Generator 2B Channel Head to Tube Sheet Weld to Head Weld received an ultrasonic examination. No reportable indications were found.

Steam Generator 2D Primary Inlet and Outlet Nozzles Radius Sections were examined by ultrasonics. No reportable indications were found.

Steam Generator 2B Inlet and Outlet Nozzle Safe End Welds, and Steam Generator 2C and 2D Outlet Nozzle-to-Safe End Welds received ultrasonic and a dye penetrant examination. No reportable indications were found.

Steam Generators 2A and 2D Primary Manway Bolting located at "W-X", "Z-W" and "WX", "Z-W" Axis respectively received visual examinations. Reportable conditions were detected (Item numbers B07.030.005 and

B07.030.006). Refer to Problem Investigation Report 2-M92-0066 included in Section 9 of this report. The scope of the inspection was extended per ASME Section XI, Paragraph IWB-2430(a) to include the bolting in Steam Generator 2B. The inspection data sheets are included in this section of the report. No other reportable conditions were found.

5.4 Piping

Dissimilar Metal Butt Welds:

Five (5) dissimilar metal butt welds, nominal pipe size four inches and greater received a dye penetrant examination only; two (2) dissimilar metal butt welds received ultrasonic and dye penetrant examinations. No reportable indications were found.

Similar Metal Butt Welds:

Nominal Pipe size four inches and greater:

Six (6) circumferential butt welds received ultrasonic and dye penetrant examinations. No reportable indications were found.

Nominal pipe size four inches and smaller:

One (1) circumferential weld received a dye penetrant examination. Nineteen (19) socket welds received a dye penetrant examination. No reportable indications were found.

Bolting:

Flange bolting (ID NO. 2NV282-FL1) received a visual examination. No reportable conditions were found.

Piping Supports:

Sixty-four (64) Class 1 Component Supports received a visual examination as required by ASME Section XI, Article IWF-2000. No reportable conditions were found.

5.5 Pumps

Reactor Coolant Pump 2B Main Flange Bolting received an ultrasonic examination. No reportable indications were found.

5.6 Valves

The pressure retaining bolting in Valves 2NC-1, 2NC-2, 2NC-3, 2NI-70, 2NI-71, 2NI-125, 2NI-175, 2NI-176, 2NI-180, 2NI-181, 2NI-129, 2NI-134 and 2NV-15. The internal surfaces of Valves 2NC-1, 2NC-2, 2NC-3 and 2ND-2A.C received visual examinations. No reportable conditions were found.

5.7 Steam Generator Tubing

The Inconel 600 tubing in the four Westinghouse Model D3 Recirculating Steam Generators (RSG's) A, B, C, and D, at Duke Power Company's McGuire Unit 2 were examined by eddy current techniques during January/February 1992. The tubing in the generators measures 0.750" nominal OD X 0.043" nominal wall thickness. The examinations were performed by personnel from Duke Power Company, Babcock and Wilcox Nuclear Service Company (BWNS) and Zetec Inc. during the 7th refueling outage.

One hundred percent of the tubes were examined full-length with magnetic bias bobbin coil probes. Additionally, one hundred percent of the tubes were examined with a rotating probe in the area of the inlet and outlet side secondary tubesheet face. This examination utilized Zetec's SM-15 rotating probe system, which is specifically designed for and limited to scanning the tubesheet area. This tubesheet examination included the area from two inches above to four inches below the secondary tubesheet face on both the inlet and outlet sides. For locations outside of the tubesheet region, Zetec's Motorized Rotating Pancake Coil (MRPC) system was used.

In response to a tube leak in McGuire Unit 1, a re-evaluation of the bobbin coil data from McGuire Unit 2 was performed. Additional analysis guidelines were incorporated into the re-evaluation to help identify tubes that may exhibit the type of degradation responsible for the leak in Unit 1. The re-evaluation included 100% of the bobbin coil data between the inlet and outlet secondary side tubesheet faces.

The following is a summary of the results of the eddy current examinations for each generator.

RSG A:

- 4,423 tubes examined full length by bobbin coil probe. (Examination started 1/20/92 and completed 1/29/92.)
- 4,304 inlet tubesheets examined by SM-15 rotating probe.
- 4,423 outlet tubesheets examined by SM-15 rotating probe.
- 36 tubes contained indications greater than or equal to 40% through wall depth (TWD).
- 31 tubes contained indications 20 to 39% TWD.
- 31 tubes were repaired by sleeving.
- 15 tubes were removed from service.

RSG B:

- 4,444 tubes examined full length by bobbin coil probe. (Examination started 1/20/92 and completed 2/3/92.)

- 4,311 inlet tubesheets examined by SM-15 rotating probe.
- 4,444 outlet tubesheets examined by SM-15 rotating probe.
- 29 tubes contained indications 40% TWD or greater.
- 33 tubes contained indications 20 to 39% TWD.
- 38 tubes were repaired by sleeving.
- 42 tubes were removed from service.

RSG C:

- 4,436 tubes examined full length by bobbin coil probe. (Examination started 1/19/92 and completed 1/28/92.)
- 4,321 inlet tubesheets examined by SM-15 rotating probe.
- 4,436 outlet tubesheets examined by SM-15 rotating probe.
- 23 tubes contained indications 40% TWD or greater.
- 22 tubes contained indications 20 to 39% TWD.
- 22 tubes were repaired by sleeving.
- 17 tubes were removed from service.

RSG D:

- 4,460 tubes examined full length by bobbin coil probe. (Examination started 1/20/92 and completed 2/4/92.)
- 4,349 inlet tubesheets examined by SM-15 rotating probe.
- 4,460 outlet tubesheets examined by SM-15 rotating probe.
- 21 tubes contained indications 40% TWD or greater.
- 54 tubes contained indications 20 to 39% TWD.
- 46 tubes were repaired by sleeving.
- 32 tubes were removed from service.

5.8 System Leakage/Hydrostatic Tests

The Class 1 Pressure Boundary was subjected to system leakage and hydrostatic tests as required by ASME Section XI, Article IWB-5000. No reportable conditions were found.

5.9 Class 1 Repairs and Replacements

Repairs and replacements for work performed from December 25, 1990 to March 14, 1992 are itemized in Section 11 of this report.

DUKE POWER COMPANY
 STATION McGuire UNIT Two

ISI VISUAL EXAMINATION, VT-1

W. R. # 048660 Page 1 of 1

INSPECTOR <u>L. Leatherman</u>	LEVEL <u>II</u>	DATE <u>2-20-92</u>	PROCEDURE <u>OCL-13</u>	REV <u>6</u>
		THICKNESS <u>NA 682 2-20-92</u>	VISUAL METHOD: <u>DIRECT</u> <input checked="" type="checkbox"/> <u>REMOTE</u> <input type="checkbox"/>	
		MATERIAL TYPE <u>C.S.</u>	VISUAL AIDS/M & TESTS <u>Flash light</u> <u>12' tape</u>	
		SURFACE: <u>ID</u> <input type="checkbox"/> <u>OD</u> <input checked="" type="checkbox"/>		
ID NUMBER: <u>2 SGC - MW - WX</u> <u>2 SGC - MW - ZW</u>	ITEM NO <u>B07.030.005</u> <u>B07.030.006</u>		<input type="checkbox"/> PSI	<input checked="" type="checkbox"/> TSI

ITEMS INSPECTED:

1 3/8" STUDS AND NUTS FOR 2 SGC PRIMARY MANWAY COVERS (Hot and Cold Legs)

IND. NO.	INDICATION TYPE	LENGTH	WIDTH	REMARKS
<u>1.</u>	<u>See Remarks</u>			<u>Damage threads on Stud #110.</u>
<u>2.</u>	<u>See Remarks</u>			<u>Damage threads on Nut #122.</u>

RESULTS: ACCEPTABLE UNACCEPTABLE, REQUIRES NDE EVALUATION OR REPAIR

COMMENTS/DISPOSITION: Inspected 32 studs and 32 nuts for 2 SGC Primary manway covers hot and cold legs. Only found one nut SN#122 to be damaged. (see remarks) And one stud SN#110 to be damaged. (see remarks)

L. Leatherman 2-20-92

PIR → 2M 92-0066 was generated because they (stud + nut) were found to be unacceptable for continued service. LCK 3-9-92

Stud + Nut were replaced.

ANII REVIEW <u>[Signature]</u>	DATE <u>3-19-92</u>
QA REVIEW <u>Larry C. Keith</u>	DATE <u>3-19-92</u>

Align size

Plant: McGuire Unit 2
 Outage: 01/92 RFD

Steam Generator: A

TEST: BOBBIN - 40-100% TMD

TEST	ROW	COL	IND	XTW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
BOBBIN	3	57	ID1	50	4.36	1	20	TE-HL + 8.81	FL	TE-CL	34	H7791	610	
BOBBIN	7	74	ID1	98	7.76	1	39	TE-HL + 16.22	FL	TE-CL	63	M7006	610	
BOBBIN	8	23	ID1	40	7.82	1	16	TE-HL + 18.16	FL	TE-CL	31	H7791	610	
BOBBIN	9	105	ID1	78	7.08	1	31	TE-HL + 6.96	FL	TE-CL	62	C7949	610	
BOBBIN	12	35	ID1	53	12.03	1	21	TE-HL + 4.31	FL	TE-CL	28	G6495	610	
BOBBIN	12	62	ID1	55	5.19	1	22	TE-HL + 11.30	FL	TE-CL	59	H8551	610	
BOBBIN	14	73	ID1	97	15.43	1	45	TE-HL + 17.53	FL	TE-CL	58	L7871	610	
BOBBIN	15	45	ID1	63	7.04	1	25	TE-HL + 17.25	FL	TE-CL	26	H3464	610	
BOBBIN	15	105	ID1	53	4.49	1	21	TE-HL + 7.80	FL	TE-CL	57	H8551	610	
BOBBIN	16	29	ID1	45	6.40	1	17	TE-HL + 13.40	FL	TE-CL	25	L7871	610	
BOBBIN	17	24	ID1	63	9.19	1	25	TE-HL + 10.32	FL	TE-CL	24	S7675	610	
BOBBIN			ID1	93	8.79	1	37	TE-HL + 14.30	FL	TE-CL	24	S7675	610	
BOBBIN	17	25	ID1	78	7.92	1	31	TE-HL + 14.34	FL	TE-CL	24	S7675	610	
BOBBIN	17	31	ID1	43	7.67	1	17	TE-HL + 9.44	FL	TE-CL	24	S7675	610	
BOBBIN			ID1	48	5.54	1	19	TE-HL + 16.22	FL	TE-CL	24	S7675	610	
BOBBIN	17	72	ID1	43	10.89	1	17	TE-HL + 9.35	FL	TE-CL	56	C3556	610	
BOBBIN	18	15	ID1	70	6.57	1	28	TE-HL + 5.24	FL	TE-CL	23	B3720	610	
BOBBIN	19	21	ID1	50	5.79	1	20	TE-HL + 8.24	FL	TE-CL	23	B3720	610	
BOBBIN	19	22	ID1	45	5.16	1	18	TE-HL + 4.42	FL	TE-CL	23	B3720	610	
BOBBIN	19	29	ID1	48	7.43	1	19	TE-HL + 14.13	FL	TE-CL	23	B3720	610	
BOBBIN	20	73	ID1	45	9.57	1	18	TE-HL + 10.18	FL	TE-CL	53	C3556	610	
BOBBIN	21	58	ID1	73	5.73	1	29	TE-HL + 7.58	FL	TE-CL	53	C3556	610	
BOBBIN	27	47	ID1	63	10.15	1	25	TE-HL + 5.99	FL	TE-CL	17	W4892	610	
BOBBIN	35	97	ID1	45	7.27	1	18	TE-HL + 3.22	FL	TE-CL	42	S7675	610	
BOBBIN	36	66	ID1	50	3.81	1	20	TE-HL + 7.42	FL	TE-CL	42	H8551	610	
BOBBIN	37	45	ID1	70	6.01	1	28	TE-HL + 12.38	FL	TE-CL	10	M6643	610	
BOBBIN	38	45	ID1	80	7.98	1	32	TE-HL + 9.41	FL	TE-CL	10	M6643	610	
BOBBIN	38	76	ID1	55	8.24	1	22	TE-CL + 7.16	FL	TE-CL	40	L4332	610	
BOBBIN	39	81	ID1	85	2.68	1	34	TE-HL + 3.60	FL	TE-CL	40	C3556	610	
BOBBIN	40	63	ID1	43	5.78	1	17	TE-HL + 16.29	FL	TE-CL	39	S7675	610	
BOBBIN	41	75	ID1	63	4.57	1	25	TE-HL + 6.41	FL	TE-CL	39	S7675	610	
BOBBIN	41	82	ID1	75	11.80	1	30	TE-HL + 3.24	FL	TE-CL	38	M6643	610	
BOBBIN	41	87	OD1	61	1.12	17	77	17TH TSP+ 0.26	FL	TE-CL	38	T9924	610	
BOBBIN	43	68	ID1	65	6.92	1	26	TE-HL + 13.23	FL	TE-CL	38	M6643	610	
BOBBIN	44	63	ID1	60	8.92	1	24	TE-HL + 7.64	FL	TE-CL	37	K7060	610	

TOTAL TUBES FOUND = 33
 TOTAL INDICATIONS FOUND = 35
 TOTAL TUBES IN INPUT FILE = 4674

U: McGuire Unit 2
R: 1/92 REVAL

Steam Generator: A

Y: BOBBIN COIL INDICATIONS 40-100% TMD (REVAL OF 1/92 DATA)

TEST	ROW	COL	IND	STW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
BOB REEVAL	12	60	001	55	0.19	17	83	7TH TSP + 0.05	FL	TE-CL	59	F9284	610	
BOB REEVAL	17	85	001	80	0.41	1	68	2ND TSP + 1.74	FL	TE-CL	56	M0554	610	
BOB REEVAL	37	47	001	93	1.15	1	37	8TH TSP + 20.92	FL	TE-CL	10	M0554	610	

TOTAL TUBES FOUND = 3
 TOTAL INDICATIONS FOUND = 3
 TOTAL TUBES IN INPUT FILE = 4674

Plant: McGuire Unit 2
 Outage: 01/92 RFO

Steam Generator: B

RY: 40-100% TWD

TEST	ROW	COL	IND	WTW	VOLTS	CHK	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
BOBBIN	2	61	OD1	69	1.43	17	24	8TH TSP -	0.30	FL	TE-CL	68	D3162	590
BOBBIN	5	70	ID1	83	8.25	1	33	TE-HL +	4.88	FL	TE-CL	32	R2495	610
BOBBIN	6	69	ID1	48	4.44	1	19	TE-HL +	8.65	FL	TE-CL	32	J1978	610
BOBBIN	6	70	ID1	53	6.30	1	21	TE-HL +	7.69	FL	TE-CL	32	J1978	610
BOBBIN	7	14	OD1	52	0.54	1	91	12TH TSP+	6.49	FL	TE-CL	63	D3162	610
BOBBIN	7	29	OD1	67	0.30	1	74	21ST TSP+	2.98	FL	TE-CL	63	D3162	610
BOBBIN	10	59	ID1	78	13.81	1	31	TE-HL +	12.19	FL	TE-CL	28	G6695	610
BOBBIN	11	81	ID1	98	7.27	1	44	TE-HL +	18.09	FL	TE-CL	27	K7060	610
BOBBIN	13	76	ID1	55	5.74	1	22	TE-HL +	11.46	2ND TSP	TE-HL	16	T9924	480
BOBBIN	14	98	ID1	50	8.81	1	20	TE-HL +	8.08	2ND TSP	TE-HL	16	W6871	480
BOBBIN	15	64	ID1	58	5.68	1	22	TE-HL +	18.18	FL	TE-CL	24	T9924	610
BOBBIN	16	59	ID1	63	9.46	1	25	TE-HL +	8.52	FL	TE-CL	24	T9924	610
BOBBIN	18	96	ID1	68	10.21	1	27	TE-HL +	12.26	2ND TSP	TE-HL	16	W6871	480
BOBBIN	20	65	ID1	83	6.68	1	33	TE-HL +	12.12	FL	TE-CL	21	M6643	610
BOBBIN	20	95	ID1	50	10.46	1	20	TE-HL +	7.49	FL	TE-CL	21	M6643	610
BOBBIN	21	74	ID1	73	16.60	1	30	TE-HL +	16.18	FL	TE-CL	20	W0942	610
BOBBIN	23	92	ID1	68	11.34	1	27	TE-HL +	5.43	FL	TE-CL	19	K7060	610
BOBBIN	27	69	ID1	60	5.28	1	24	TE-HL +	8.24	FL	TE-CL	15	H7791	610
BOBBIN			ID1	68	5.99	1	27	TE-HL +	7.30	FL	TE-CL	15	H7791	610
BOBBIN	27	93	ID1	88	17.01	1	35	TE-HL +	14.10	2ND TSP	TE-HL	16	W6871	480
BOBBIN	27	101	ID1	40	5.98	17	16	TE-HL +	15.29	FL	TE-CL	17	M0554	610
BOBBIN	29	48	ID1	58	7.91	1	23	TE-HL +	12.26	FL	TE-CL	45	M7006	610
BOBBIN	29	92	ID1	50	11.92	1	20	TE-HL +	14.54	FL	TE-CL	14	H7791	610
BOBBIN	34	80	ID1	83	21.46	1	33	TE-HL +	9.33	FL	TE-CL	9	J1978	610
BOBBIN	41	78	ID1	44	5.17	1	17	TE-HL +	14.07	FL	TE-CL	5	M6643	610
BOBBIN	48	63	WAR	44	3.12	18	0	17TH TSP+	0.00	FL	TE-CL	1	H7791	610
BOBBIN	48	66	WAR	44	3.01	18	0	17TH TSP+	0.00	FL	TE-CL	1	H7791	610
BOBBIN	49	46	OD1	69	1.49	17	72	6TH TSP -	0.29	FL	TE-CL	12	D8021	610
BOBBIN	49	63	WAR	46	3.53	18	0	17TH TSP+	0.00	FL	TE-CL	1	H7791	610
BOBBIN	49	82	OD1	53	7.86	1	21	TE-HL +	14.08	FL	TE-CL	1	H7791	610

MBM
MBM

TOTAL TUBES FOUND = 29
 TOTAL INDICATIONS FOUND = 30
 TOTAL TUBES IN INPUT FILE = 4674

Plant: McGuire Unit 2
 Outage: 01/92 RFO

Steam Generator: C

QUERY: DEFECTS 40-100% TMD

TEST	ROW	COL	IND	XTW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	AKLST	PRB	COMMENTS
BOBBIN	2	97	ID1	85	5.45	1	33	TE-HL + 10.81	FL	TE-CL	69	L7871	580	
BOBBIN	2	107	ID1	46	4.85	1	18	TE-HL + 4.06	FL	TE-CL	69	L7871	580	
BOBBIN	4	53	ID1	60	17.56	1	24	TE-HL + 5.94	FL	TE-CL	35	M7006	610	
BOBBIN	4	88	ID1	65	18.47	1	26	TE-HL + 12.35	FL	TE-CL	66	S2680	610	
BOBBIN	7	74	ID1	93	2.08	1	37	TE-HL + 17.88	FL	TE-CL	64	H3464	610	
BOBBIN	9	17	ID1	72	0.76	1	77	TE-HL + 12.51	FL	TE-CL	32	B4260	610	
BOBBIN	10	50	ID1	88	6.94	1	35	TE-CL + 10.37	FL	TE-CL	31	C3340	610	
BOBBIN	12	27	ID1	83	3.57	1	33	TE-HL + 12.40	FL	TE-CL	30	D3858	610	
BOBBIN	13	66	ID1	50	8.97	1	20	TE-HL + 16.18	FL	TE-CL	60	H3464	610	
BOBBIN			ID1	43	6.66	1	17	TE-HL + 10.39	FL	TE-CL	60	H3464	610	
BOBBIN	13	76	ID1	68	7.37	1	27	TE-HL + 14.37	FL	TE-CL	60	H3464	610	
BOBBIN			ID1	43	3.74	1	17	TE-HL + 17.18	FL	TE-CL	60	H2464	610	
BOBBIN	14	23	ID1	43	14.24	1	17	TE-HL + 13.18	FL	TE-CL	28	C3340	610	
BOBBIN	14	67	ID1	58	6.01	1	23	TE-HL + 7.36	FL	TE-CL	60	J1978	610	
BOBBIN	14	71	ID1	48	4.36	1	19	TE-HL + 10.30	FL	TE-CL	60	J1978	610	
BOBBIN			ID1	70	7.81	1	28	TE-HL + 15.19	FL	TE-CL	60	J1978	610	
BOBBIN	14	76	ID1	53	3.95	1	21	TE-HL + 19.18	FL	TE-CL	60	J1978	610	
BOBBIN	17	11	ID1	40	4.71	1	18	TTS-HL - 2.13	FL	TE-CL	26	M0554	610	
BOBBIN	26	105	ID1	40	3.80	1	35	TE-CL + 10.37	FL	TE-CL	51	M4892	610	
BOBBIN	34	13	ID1	55	2.26	1	22	TE-CL + 15.99	FL	TE-CL	12	H3464	610	
BOBBIN			ID1	68	1.60	1	27	TE-CL + 17.01	FL	TE-CL	12	H3464	610	
BOBBIN			ID1	50	2.32	1	20	TE-CL + 17.97	FL	TE-CL	12	H3464	610	
BOBBIN	35	48	ID1	80	13.56	1	32	TE-HL + 1.67	FL	TE-CL	11	C3340	610	
BOBBIN			ID1	48	7.13	1	19	TE-HL + 2.64	FL	TE-CL	11	C3340	610	
BOBBIN	37	44	ID1	41	6.90	1	14	TE-HL + 14.36	FL	TE-CL	9	D3162	610	
BOBBIN	37	79	WAR	42	2.96	20	0	2AVB + 0.00	FL	TE-CL	44	T9924	610	
BOBBIN	42	63	OD1	95	0.72	1	46	5TH TSP + 3.93	FL	TE-CL	41	H3464	610	

TOTAL TUBES FOUND = 21
 TOTAL INDICATIONS FOUND = 27
 TOTAL TUBES IN INPUT FILE = 4674

McGuire Unit 2
1/92 REVAL

Steam Generator: C

Y: BOBBIN COIL INDICATIONS 40-100% TMD (REVAL OF 1/92 DATA)

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
BOB REEVAL	7	27	001	95	0.22	1	47	22ND TSP+	11.25	FL	TE-CL	35	D9674	610
BOB REEVAL	18	5	001	80	1.52	1	65	16TH TSP+	9.91	FL	TE-CL	26	T9093	610

TOTAL TUBES FOUND = 2
 TOTAL INDICATIONS FOUND = 2
 TOTAL TUBES IN INPUT FILE = 4674

Plant: McGuire Unit 2
Outage: 01/92 RFO

Steam Generator: D

QUERY: BOBBIN - 40-100 % TWD

TEST	ROW	COL	IND	XTW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
BOBBIN	4	113	ID1	70	3.24	1	28	TE-CL	+	7.38	FL	TE-CL	19	R9311 610
BOBBIN	7	72	ID1	65	16.56	1	26	TE-HL	+	16.83	FL	TE-CL	32	B3720 610
BOBBIN	7	81	ID1	40	20.90	1	24	TE-HL	+	3.70	FL	TE-CL	31	W4892 610
BOBBIN	10	74	ID1	50	7.47	1	20	TE-HL	+	16.20	FL	TE-CL	29	J1978 610
BOBBIN	14	74	ID1	98	0.89	1	43	TE-HL	+	8.41	FL	TE-CL	25	J1978 610
BOBBIN	14	75	ID1	90	1.32	1	36	TE-HL	+	10.31	FL	TE-CL	25	J1978 610
BOBBIN	15	81	ID1	85	25.45	1	34	TE-HL	+	1.39	FL	TE-CL	25	J1978 610
BOBBIN			ID1	53	11.69	1	21	TE-HL	+	4.55	FL	TE-CL	25	J1978 610
BOBBIN	14	104	ID1	48	38.89	1	19	10TH TSP+		23.04	FL	TE-CL	26	T9924 610
BOBBIN	15	48	ID1	68	8.35	1	27	TE-HL	+	16.22	FL	TE-CL	55	H7791 610
BOBBIN	16	61	OD1	65	0.22	1	80	18TH TSP+		8.13	FL	TE-CL	24	D3162 610 MBM
BOBBIN	20	71	ID1	45	4.15	1	18	TE-HL	+	17.31	FL	TE-CL	21	B4260 610
BOBBIN	27	71	ID1	51	5.98	1	20	TE-HL	+	17.86	FL	TE-CL	15	B0690 610
BOBBIN	28	70	ID1	65	5.34	1	26	TE-HL	+	17.14	FL	TE-CL	14	L4332 610
BOBBIN	29	103	ID1	58	7.41	1	23	TE-HL	+	18.21	FL	TE-CL	13	G6495 610
BOBBIN	30	88	ID1	65	6.48	1	26	TE-HL	+	18.13	FL	TE-CL	13	G6495 610
BOBBIN	33	64	OD1	76	3.20	1	74	9TH TSP	+	1.54	FL	TE-CL	11	S2680 610
BOBBIN	40	79	ID1	93	5.58	1	37	TE-HL	+	17.22	FL	TE-CL	6	J1978 610
BOBBIN	43	79	WAR	41	2.16	20	0	2AVB	+	0.00	FL	TE-CL	4	H3464 610
BOBBIN			WAR	41	2.04	20	0	3AVB	+	0.00	FL	TE-CL	4	H3464 610
BOBBIN	47	79	ID1	45	6.51	1	18	TE-HL	+	14.47	FL	TE-CL	2	B3720 610

TOTAL TUBES FOUND = 19
TOTAL INDICATIONS FOUND = 21
TOTAL TUBES IN INPUT FILE = 4674

at: McGuire Unit 2 Steam Generator: D
11 1/92 REVAL

BY: BOBBIN COIL INDICATIONS 40-100% TWD (REVAL OF 1/92 DATA)

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT	LEG	TAPE	ANLST	PRB	COMMENTS
BOB REVAL	33	92	001	79	0.21	1	51	2AVB + 11.64	FL	TE-CL	10	H3464	610	
BOB REVAL	34	47	001	41	0.23	1	110	10TH TSP+ 27.72	FL	TE-CL	41	H7791	610	

TOTAL TUBES FOUND = 2
 TOTAL INDICATIONS FOUND = 2
 TOTAL TUBES IN INPUT FILE = 4674

6.0 Class 2 Inspection Results

Inspections were performed during Outage 7 on Steam Generator 2C, piping integrally-welded attachments, piping welds in Auxiliary Feedwater, Safety Injection, Nuclear Service Water, Main Steam Supply to Auxiliary Equipment, Main Steam, Containment Air Release Addition, Main Feedwater and Residual Heat Removal Systems and on Class 2 Component Supports.

6.1 Steam Generators

Steam Generator 2C Lower Shell to Transition Cone Weld, Transition Cone to Upper Shell Weld and the Upper Shell to Head Weld received an ultrasonic examination. No reportable indications were found.

6.2 Piping

Welds one-half inch and less nominal wall thickness:

Nine (9) circumferential welds received a magnetic particle examination. Seven (7) circumferential welds and one (1) longitudinal weld received a dye penetrant examination. No reportable indications were found.

Welds greater than one-half inch nominal wall thickness:

Ten (10) circumferential welds received an ultrasonic and a magnetic particle examination. Four (4) circumferential welds received an ultrasonic and a dye penetrant examination. No reportable indications were found.

Piping integrally-welded attachments:

Four (4) attachments received a magnetic particle examination. No reportable indications were found.

6.3 Component Supports

Eighty-six (86) Class 2 Component Supports received a visual examination as required by ASME Section XI, Article IWF-2000. The reportable conditions were found.

6.4 Class 2 Repairs and Replacements

Repairs and replacements for work performed from December 25, 1990 to March 14, 1992 are itemized in Section 11 of this report.

7.0 Augmented Inspection Results

Augmented inspections were performed on Reactor Coolant Pump 2A, 2B, and 2D Flywheels, on Steam Generator 2B Feedwater Modification, Thermal Stress Piping (NRC Bulletin 88-08) and on Safety Injection Accumulator Nozzles (NRC IE Notice 91-05, Attachment 1).

7.1 Reactor Coolant Pump Flywheels

Reactor Coolant Pump 2A, 2B and 2D Flywheels received an ultrasonic examination. No reportable indications were found.

7.2 Steam Generator 2B Feedwater Modification

A visual examination was performed on Steam Generator 2B Feedwater Modification. No reportable indications were found.

7.3 Thermal Stress Piping Examination

Twelve (12) welds and three (3) bends were examined by ultrasonic volumetric examination on Reactor Coolant System (RC), as required by USNRC Bulletin 88-08. No reportable indications were found. Two (2) examinations were not performed (Item Numbers E06.001.014 and E06.001.017). See Duke Power Company Exception Request from NRC Bulletin 88-08, dated August 8, 1989, included in Section 10 of this report.

7.4 Safety Injection Accumulator Nozzles

Safety Injection Accumulator 2A, 2B, 2C and 2D Nozzles received a dye penetrant examination in accordance with NRC Information Notice No. 91-05, Intergranular Stress Corrosion Cracking in Pressurized Water Reactor Safety Injection Accumulator Nozzles. No reportable indications were found.

8.0 Personnel, Equipment, and Material Certifications

All personnel who performed or evaluated results of inservice inspections from December 24, 1990 to March 14, 1992 at McGuire 2 were certified in accordance with the requirements of 1980 ASME Section XI with Addenda through Winter 1980. The appropriate certification record for each Duke Power Company inspector is on file at McGuire Nuclear Station or in the Corporate Office 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 Office in Charlotte, North Carolina.

8.1 Personnel, Equipment and Material Certifications - Eddy Current Testing

See Duke Power Company Eddy Current Examination Report, McGuire Nuclear Station, January 1992 on file at the Corporate Office in Charlotte, North Carolina.

9.0 Problem Investigation Reports

A copy of each Problem Investigation Report resulting from reportable items, originated against scheduled inservice inspections performed during Outage 7, is included in this section. All were resolved and found acceptable before returning Unit 2 to service. The following Problem Investigation Reports were issued:

<u>P.I.R. NO.</u>	<u>DESCRIPTION</u>	<u>DATE ISSUED</u>
2-M92-0066	Steam Generator 2C Manway Bolting	03/09/92

COMPLETE FORM BY PRINTING WITH BLACK BALL POINT PEN OR TYPE
 DUKE POWER COMPANY
 NUCLEAR STATION
 PROBLEM INVESTIGATION REPORT SERIAL NO. 7-M92-0066
 STATION McGuire Nuclear Station
 LER NO. _____

I. Problem Occurred-Time/Date: UNKNOWN Discovered-Time/Date: 2:00PM 3-9-92
 Unit(s): 2 Unit Status At Time Problem Occurred/Discovered: Refueling
 Description and Cause of Problem: During ISI inspection of C S/C Primary Manway Boltting a Stud AND Nut were found to have damaged threads. After further evaluation by MES the stud and nut were determined to be unacceptable for continued service.
 Location of Problem: UNIT 2 'C' S/C Primary Manway Covers
 Method Used To Discover Problem: Visual Inspection
 Immediate Corrective Actions Taken/To Be Taken: Stud & Nut have been replaced. (WR 058662) [Signature]
 Information Sources/References (Work Requests, Documents Violated, etc.): viola? DCL 13 Procedure
 Originated By: Larry C. Keith Date: 3-9-92 Dept./Group/Section mes
 Other Units Affected () Yes () No By/Date _____

II. COMPLIANCE EVALUATION-Item/System Operable () Yes () No () Not Applicable
 Evaluated By/Date: [Signature] / 3-9-92 Comment: currently in mode 5
 Reportable () Yes () No Reportable Per: () 50.73 Sect. () 50.72 Sect. () 73.71 Sect. () T. S./Lic. Cond. Sect. () Part 21 () Other () Part 5
 Evaluated By/Date: [Signature] / 3-9-92 Comments: _____

III. Telecon/ENS Report to NRC Time/Date: NA
 NRC Contactee(s): _____ DPC Contactor(s): _____
 Telegraph/Mailgram/Facsimile Transmission to NRC-Date: _____
 Date Notified: NRC Res. Inspector _____ Station Manager _____ General Office _____
 Comments: _____

IV. Investigation Assigned To: NA NRC Report Due Date: _____
 Date Due to Compliance after Evaluation _____
 PIR Review (Compliance): _____ Date: _____
 PIR Station Manager Approval _____ Date: _____

V. Further Action/Evaluation Required () Yes () No (Explain Below):
 Page 2 Assigned To: MES (MWB)
 Comments: _____

Compliance Review [Signature] Date 3-9-92 QA Review NA Date _____

Distribution

Initial	Originator	<u>R. White</u>	<u>NRC</u>	<u>SOB</u>	<u>LF</u>	<u>MSRG</u>
		<u>L. Keith</u>	<u>J. Silver</u>	<u>B. Cheezem</u>		
Final	Originator					

PROBLEM INVESTIGATION REPORT

Page 2
PIR No. 8-M92-0066

VI. Root Cause of Problem _____

Proposed Resolution of Problem SEE ATTACHED SHEETS

Group(s) Involved _____

By	Date	P/C DATE	Concurrence	Date
Approved (Other Groups Affected)	Date	Approved <u>Milo Thompson</u>		<u>4/1/92</u>
Approved (Other Groups Affected)	Date	Approved <u>Harry C. Kuth</u>	QA	<u>5-6-92</u>

Significant Corrective Action Evaluation Requested Yes _____ No X
Assigned To/Comments not a generic problem at McGuire (except it is an expected occurrence due to tensioning-defensioning of yarn). Also, other stations not affected per Sect. I of this PIR.

VII. Corrective Action(s) Required

Assigned To Performed By Date

Assigned To	Performed By	Date

BY: _____ Date: _____

Action/Inspection Remarks _____

Final Compliance Review _____ Date _____

RESPONSE TO PIR 2-M92-0066
GALLED STUDS ON STEAM GENERATOR MANWAYS

SECTION VI:

The identification of galled studs or bolts during normal maintenance occurs occasionally. The root cause of this is slight stretching and/or minor damage to threads which will occur during normal maintenance. A galled fastener does not jeopardize the integrity of the pressure boundary. Based on this the normal practice is to replace the fastener with a new fastener. In general no further inspection or evaluation is carried out as long as the number of galled fasteners is not excessive. Visual or metallurgical evaluation is expensive and does not provide significant additional information which would lead to prevention of future occurrences. Galling of fasteners is considered a concern with cost and ALARA not the integrity of the joint. Component Engineering is involved with primary fastener removal and replacement and monitors the number of galled fasteners. If this becomes excessive such that cost or dose expended becomes significant an MIR would be initiated to resolve the problem. Procedure MMP-OA- 7700/86 (Section XI Suitability Evaluation) is used to document findings and resolution of galled fasteners.

March 10, 1992

To : Mike Thompson, MNS Components Group

Subject: Past Operability of Galled Stud from S/G 28C
PIR 2-M92-0066

From your description of when and how the damage to the stud occurred, and of how the stud was originally stretched and torqued per procedure, I agree that the stud and nut were not degraded during operation and also that no past operability should be required.

David White

W. David White
McGuire Engineering
Nuclear Generation Department

10.C Reference Documents

The following reference documents apply to the inservice inspection performed during Outage 7 at McGuire 2:

- Duke Power Company Exception Request from NRC Bulletin 88-08, dated August 8, 1989.
- NRC Information Notice No. 91-05: Intergranular Stress Corrosion Cracking in Pressurized Water Reactor Safety Injection Accumulator Nozzles, dated January 30, 1991, and Duke Power Company Attachment 1, dated March 10, 1991.

DUKE POWER COMPANY
P. O. BOX 33189
CHARLOTTE, N. C. 28249

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

August 8, 1989

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

Subject: McGuire Nuclear Station, Unit 2
Docket No. 50-370
NRC Bulletin 88-08
Thermal Stress in Piping Connected to The Reactor Coolant System

Gentlemen:

On June 22, 1988, the NRC issued Bulletin 88-08, Thermal Stresses in Piping Connected to the Reactor Coolant System. NRC Bulletin 88-08 requires the inspection of unisolable sections of piping connected to the Reactor Coolant System which may be subjected to excessive thermal stresses. My September 9, 1988 letter to the Document Control Desk conservatively identified 1-1/2 inch diameter safety injection piping for inspection. This piping is not as likely to be subjected to thermal stresses as Farley's 6 inch diameter piping because thermal stratification may not occur as readily in small diameter piping.

The McGuire Unit 2 safety injection piping is now being inspected during the end of cycle 5 refueling outage. While inspecting safety injection piping going into cold leg 'D', it was determined that two elbows cannot be accessed without removal of pipe rupture restraints. The rupture restraints consist of 6 inch Schedule 160 guard pipe surrounding the process pipe. The guard pipe is supported by multiple tube steel members. To access the process pipe for inspection, it would be necessary to cut and weld back together each of these members and the 6 inch guard pipe. These are Quality Assurance Condition 1 pipe restraints which would require hold points for weld inspection during reassembly. The weight of the components would require the use of hoists to support the components during removal and restoration.

An estimate of 300 man-hours has been calculated for this job. The work area is confined and within approximately five feet of the Reactor Coolant System Cold Leg. The general radiation field in the area is approximately 90 mR/hr. The dose estimate for this job is 20-25 man-Rem.

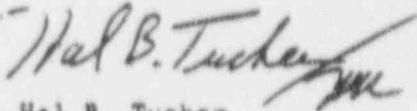
Therefore, due to ALARA considerations I am requesting a partial exception from the requirements of NRC Bulletin 88-08 for the two elbows in the McGuire Unit 2 'D' cold leg 1-1/2 inch diameter safety injection piping. The remainder of this line will be inspected to the extent practical with the rupture restraint in place. 1-1/2 inch safety injection piping going into the other three cold legs is also being inspected. It should be noted that similar 1-1/2 inch diameter piping has been inspected by ultrasonic volumetric examination at McGuire Unit 1 and Catawba Units 1 and 2. These inspections revealed no findings which could have indicated the presence of excessive thermal stress.

Document Control Desk
August 8, 1989
Page 2

Additionally, temporary instrumentation is being placed in this line to monitor thermal conditions of the pipe and verify that 1-1/2 inch diameter safety injection piping is not subjected to excessive thermal stresses.

Since McGuire Unit 2 is scheduled to return to power operation following completion of the end of cycle 5 refueling outage, it is requested that the NRC review and approve this partial exception from the requirements of Bulletin 88-08 prior to August 28, 1989.

Very truly yours,



Hal B. Tucker

JGT/4/MNS88-08

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

Mr. P. K. Van Doorn
NRC Resident Inspector
McGuire Nuclear Station

U. S. Nuclear Regulatory Commission
August 8, 1989
Page 3

bxc: H. B. Tucker
R. C. Futrell
R. O. Sharpe
R. J. Deese
J. M. Davis
J. S. Warren
Manager - QA Technical Service., EC-1258
GO QA Tech. Support NRC Coord. - EC1-1255
Group File: MN-815.02

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION
WASHINGTON, D.C. 20555

January 30, 1991

NRC INFORMATION NOTICE NO. 91-05: INTERGRANULAR STRESS CORROSION
IN PRESSURIZED WATER REACTOR
INJECTION ACCUMULATOR NOZZLES

FEB 12 '91	
FILE	1
CAR	1
CSC	1
ED	
VERACKING	
SAFETY	L E
TO	R
COPY	

Addressees:

All holders of operating licenses or construction permits for pressurized water reactors (PWRs).

Purpose:

This information notice is intended to inform licensees of recent problems involving intergranular stress corrosion cracking (IGSCC) of PWR safety injection accumulator nozzles. It is expected that recipients will review the information for applicability to their facilities and consider actions, as appropriate, to avoid similar problems. However, suggestions contained in this information notice do not constitute NRC requirements; therefore, no specific action or written response is required.

Description of Circumstances:

In January 1988, personnel at the Prairie Island Nuclear Generating Plant, Unit 2, detected a leak in one of the safety injection accumulators. The leak was determined to be in a two-inch diameter nozzle for the water level sensing instrumentation line. The licensee (Northern States Power Company) determined that the failure mode was IGSCC in a crack that started as a consequence of high stresses caused by the improper fit-up of the pipe to the nozzle in preparation for welding.

In October 1990, personnel detected a leak from safety injection accumulator "C" at the H. B. Robinson Steam Electric Plant, Unit 2, during the 10-year inservice inspection hydrostatic test. This leak was also located in a two-inch diameter nozzle for the water level sensing instrumentation line. In both cases, the accumulators involved are part of the safety injection system and contain borated water maintained at approximately 600 psig by nitrogen cover gas.

Discussion:

At Prairie Island Unit 2, the leak occurred in a nozzle that was submerged in the borated water near the bottom of the tank. Westinghouse Electric Corporation performed a failure analysis at the request of the licensee which revealed

that the cause of the failure was IGSCC. Westinghouse attributed the stresses that were responsible for initiating the crack to the improper fit-up of the nozzle socket to the pipe in preparation for welding. Specifically, during the fit-up of the nozzle, the small gap which is required to be maintained between the end of the pipe and the bottom of the socket while the welding procedure is performed was not established. The investigation at Prairie Island confirmed that the gap had not been maintained and that the pipe had been seated fully into the nozzle before welding. This situation is believed to have caused the stresses that initiated the crack and promoted IGSCC in the nozzle. The analysis by Westinghouse also clearly indicated that the nozzle material was in a sensitized condition, making it susceptible to IGSCC. The licensee inspected other nozzles at Prairie Island and found no significant indications of cracking. At that time, Westinghouse attributed the failure primarily to the fit-up problem and took no further actions.

Carolina Power and Light Company (CP&L, the licensee) performed a failure analysis on the cracked nozzle from Robinson, Unit 2. The results of the analysis indicated that IGSCC caused the leak. The nozzle appeared to be manufactured from 304 stainless steel based on a chemical analysis of a sample that was removed from the nozzle. The crack had started on the inside diameter (ID) of the coupling and extended axially along the nozzle ID within the tank shell. The portion of the crack that propagated to the outside diameter (OD) of the nozzle was approximately 3/16-inch long and did not extend into the nozzle attachment fillet weld reinforcement. CP&L concluded that the full penetration weld (double-V groove design) connecting the nozzle to the shell produced the residual stresses that initiated the cracking. The axial orientation of the crack appears to provide some justification for this conclusion.

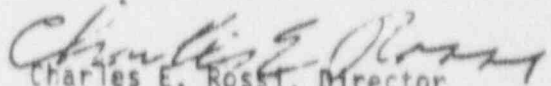
The failed nozzle at Robinson, Unit 2, was manufactured using austenitic stainless steel that became sensitized. CP&L attributed the sensitization of the coupling primarily to the post weld heat treatment (PWHT) of the accumulator performed by the manufacturer (Delta Southern Company, formerly located in Baton Rouge, Louisiana) in combination with the welding of the coupling to the accumulator. Typically, when a manufacturer plans to perform PWHT on a component that contains stainless steel, a low carbon grade of the material, containing a maximum of 0.035 percent carbon (e.g. types 304L or 316L), would be preferred. These low carbon grades of stainless steel are much less susceptible to sensitization and are therefore typically considered to be resistant to IGSCC. During the failure analysis, CP&L determined that the carbon content of the failed nozzle was 0.062 percent. No certified material test reports could be located for the 2-, 1-, and 3/4-inch diameter nozzles on the accumulator. CP&L determined that none of these small nozzles on the three accumulators at Robinson Unit 2 were made using low carbon content stainless steel, but that the 10-inch nozzles on the bottom of the tanks were made using stainless steel with low carbon content. The Westinghouse specification for the nozzles called for 304 stainless steel and did not specify a requirement for low carbon content.

The exact corrosive environment that contributed to the crack's propagation could not be determined. This particular nozzle was in the portion of the accumulator that was filled with gaseous nitrogen, and not under water as was the nozzle at Prairie Island.

Later, the licensee performed liquid penetrant and ultrasonic examinations on all of the nozzles on the three accumulators at Robinson Unit 2 and found that another 2-inch diameter nozzle, in this case on accumulator "A", had a crack with the characteristics of IGSCC. Further excavation of the nozzle from accumulator "A" revealed that the cracking was identical to that found in the nozzle on accumulator "C." In both of these cases, the licensee found no indication of any problem with the fit-up for the nozzle.

CP&L has reported this condition to the NRC under the provisions of 10 CFR Part 21 and has evaluated other tanks and vessels in its plant that were supplied by Delta Southern Company and found no further problems. In order to accurately determine the material used in and the condition of the nozzles on the safety injection accumulators, CP&L had to review their plant-specific drawings and associated records and take filing samples from the nozzles for analysis. Ultrasonic examination of the nozzles in a circumferential direction has proven to be the most effective crack detection method if examinations are required.

This information notice requires no specific action or written response. If you have any questions about the information in this notice, please contact one of the technical contacts listed below or the appropriate MRR project manager.


Charles E. Rossi, Director
Division of Operational Events Assessment
Office of Nuclear Reactor Regulation

Technical Contacts: James L. Coley, Region II
(404) 331-5584

Robert A. Hermann, NRR
(301) 492-0768

Attachment: List of Recently Issued NRC Information Notices

Attachment 1

Subject: Description And Status Of The Required Corrective Action For NRC Information Notice 91-05: IGSCC In Pressurized Water Reactor Safety Injection Accumulator Nozzles.

NRC Information Notice 91-05 details two separate leaks in two-inch nps type 304 stainless steel level sensing instrument line nozzles on safety injection accumulator tanks. The cause of leaks was determined to be IGSCC (intergranular stress corrosion cracking) although the contributing factors were different. For the January 1988 leak at Prairie Island Nuclear Plant the contributing factor was improper fit-up of a socket weld where the pipe was pushed all the way into the socket resulting in excess stress at the weld. For the October 1990 leak at the H. B. Robinson Nuclear Plant the contributing factor was sensitization of the nozzle due to PWHT (post weld heat treatment) of the accumulator performed by the manufacturer (Delta Southern Company). Both McGuire and Catawba have accumulator tanks manufactured by Delta Southern.

Duke Power has not experienced a significant problem in the past with the pipe being pushed far into the socket. Drawings CNM 1201.04-0151 sheets 1&2 and MCM 1201.04-0036 sheets 1&2 show that an inconel buttering layer was deposited on the weld joint before the vessel was stress relieved. This indicates that the stainless steel nozzles were not PWHT and thus not sensitized. Even though the contributing factors do not appear to be present at Duke Power it is recognized that other factors play a part in IGSCC such as the amount of cold work and residual stress. For that reason it has been recommended by both the Quality Assurance Department and Nuclear Production Department that level sensing instrument nozzles be inspected by liquid penetrant testing of the socket weld and the surface of the nozzle back to weld at the vessel. There are 4 units each with 4 vessels and 4 nozzles for each vessel making a total of 64 nozzles to be inspected. J. E. Cherry from the Quality Assurance Department has included these inspections in each of the McGuire and Catawba Unit's ISI program as a one time inspection to be done during the units next scheduled refueling outage. It is also recognized that there are other nozzles of the same material on the safety accumulator tanks, and that if problems are found additional nozzles will have to be inspected.

David E. Whitaker 3/10/91

David E. Whitaker, Nuclear Production Engineer
Nuclear Maintenance, NPD

cc: J. E. Cherry - QA

11.0 Class 1 and 2 Repairs and Replacements

As required by ASME Section XI, 1980 Edition, a record of the Class 1 and 2 Repairs and Replacements for work performed from December 25, 1990 to March 14, 1992 is provided and is included in this section of the report. The individual work request documents are on file at the McGuire Nuclear Station.

McGUIRE NUCLEAR STATION (Unit # 2)
 REPAIRS/REPLACEMENT LOG (12-25-90 thru 03-14-92)

UNIT	WORK REQ#	DESCRIPTION
1	2	01483A * 2N133 CLASS 1 WALKDOWN
2	2	01485A * 2RN118 NUT REPLACEMENT
3	2	02120B * 2RN30 NUT REPLACEMENT
4	2	03038A * 2N182 STUD & NUT REPLACEMENT
5	2	04317B * 2KC114 NUT REPLACEMENT
6	2	04318B * 2KC116 STUD REPLACEMENT
7	2	04319B * 2KC121 NUT REPLACEMENT
8	2	04692B * UNIT 2 COMSEALS FLANGE REPLACEMENT
9	2	04819B * RCP 2B SEAL REPLACEMENT
10	2	04820B * RCP 2D SEAL REPLACEMENT
11	2	04859B * 5/G 2A CF VISUAL
12	2	04864B * SHIMMER EXAMINATION
13	2	05064B * RCF160 NUT REPLACEMENT
14	2	05065B * RCF161 GASKET
15	2	05066B * RCF162 GASKET
16	2	05067B * RCF163 GASKET REPLACEMENT
17	2	05259B * 2/G 2A EDDY CURRENT
18	2	05261B * 5/G 2C EDDY CURRENT
19	2	05262B * 5/G 2D EDDY CURRENT
20	2	08539A * KC HX 2B TUBE PLUGGING
21	2	095420 * 25V5 PM
22	2	095426 * 25V12 PM
23	2	095427 * 25V14 PM
24	2	095434 * 25V22 PM
25	2	09936B * 5/G 2B BOLT REPLACEMENT
26	2	09937B * 2/G 2C GASKET REPLACEMENT
27	2	09939B * 2RN214
28	2	139327 * 2RN286 VALVE REPLACED
29	2	139423 * 2NV141 NUT REPLACEMENT
30	2	140311 * 2VC40
31	2	140312 * 2VC39 CUT OUT
32	2	143417 * 2NV496 NUT REPLACEMENT
33	2	300536 * 2NR94 NUT REPLACEMENT
34	2	302947 * RM MOTOR COOLER STUD & NUT REPLACEMENT
35	2	503274 * 5/G SECONDARY MANWAY COVER
36	2	503281 * 5/G 2B BOLT REPLACEMENT
37	2	503282 * 5/G 2C BOLT REPLACEMENT
38	2	503289 * 5/G 2A
39	2	503483 * 2NV264 REPLACED VALVE
41	2	504132 * RCP 2D NUT REPLACEMENT 2-MCR-NV-4379, 4380, 4381
43	2	75562 * RCP 2A NV HYDRO 2NV6
44	2	75564 * RCP 2A NV HYDRO 2NV19 & 20
45	2	75567 * RCP 2P NV HYDRO 2NV21 & 22
46	2	75568 * RCP 2C NV HYDRO 2NV8
47	2	75570 * RCP 2C NV HYDRO 2NV23 & 24
48	2	97272 * MEVN 2097 RI PUMP 2A
49	2	97273 * MEVN 2097 RM PUMP 2B
51	2	97684 * IMPLEMENT NSM MG-2-2320 OH AUX FEEDWATER PUMP 2A

DATE PERIOD 12-25-90 - 03-14-92 TRANSMITTED TO ISI SUPERVISOR *LCK* 03-23-92

Larry C. Keith

52	*	2	*	97917	*	REPLACE SNUBBERS ON HANGER BMCD-CA-0069	*
53	*	2	*	97950	*	IMPLIMENT MEVN-2881 ON S/G 2A	*
54	*	2	*	954446	*	INSTALL ORFICE 2MVFE7800	*
55	*	2	*	953997	*	REPLACE VLV 2KF135	*
56	*	2	*	953969	*	IMPLIMENT NSM MC-22154 ON 2B DIESEL GEN	*
57	*	2	*	953959	*	REPLACE VLV 2RNB9A	*
58	*	2	*	953955	*	REPLACE VLV 2RR190B	*
59	*	2	*	953929	*	CHANGE OUT VLV 2RV32	*
60	*	2	*	953848	*	IMPLIMENT NSM-22123 ON MV SYSTEM	*
61	*	2	*	953531	*	REPAIR / REPLACE VLV 2RN187B	*
62	*	2	*	953109	*	REMOVE JET BARRIER (RUP/REST 2JBCNC207-0011)	*
63	*	2	*	89548	*	REPAIR LEAKING VLV ON 2MVP PX 5180	*
64	*	2	*	75868	*	REPAIR LEAK ON VLV 2KF-31	*
65	*	2	*	75692	*	REPAIR LEAK ON VLV 2CF151	*
66	*	2	*	75168	*	CHANGE-OUT BOLTS ON PUMPMOTOR COVER ON CA PUMP 2B	*
67	*	2	*	75033	*	REPAIR SEAL RING LEAK ON VLV 2NI-76A	*
68	*	2	*	505841	*	REPLACE SNUBBER ON HANGER BMCA-CA-057	*
69	*	2	*	505835	*	PERFORM KF HYDRO	*
70	*	2	*	505834	*	PERFORM KF HYDRO	*
71	*	2	*	503829	*	PERFORM KF HYDRO	*
72	*	2	*	503294	*	INSPECT INTERNALS ON VLV 2CF-27	*
73	*	2	*	142955	*	REPAIR VLV 2NI-0054A	*
74	*	2	*	140908	*	REPAIR LEAK ON VLV 2CA-45	*
75	*	2	*	139248	*	REPAIR VLV LEAK ON 2MV-0240	*
76	*	2	*	08049C	*	REPAIR VLV 2RN-0103A AND REPAIR PUMP MOTOR COOLER	*
77	*	2	*	046948	*	REMOVE AND REPLACE RV HEAD	*
78	*	2	*	98064	*	REPAIR CLAPPER ARM ON VLV 2CF-160 AND 2CF-163	*
79	*	2	*	954038	*	REWORK TUBING ON 2NCLT5150	*
80	*	2	*	137822	*	REPAIR STEAM CUT ON 25V-13	*
81	*		*		*		*
82	*		*		*		*
83	*		*		*		*
84	*		*		*		*
85	*		*		*		*