



INSERVICE INSPECTION REPORT  
UNIT 2 MCGUIRE 1990 REFUELING  
OUTAGE 6

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:

A. J. Hogge, Jr.

Date

2-15-91

Reviewed By:

J. L. Underwood

Date

2-21-91

Approved By:

[Signature]

Date

2-25-91

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## 1.0 Summary of Inservice Inspection

This report describes the Inservice Inspection of Duke Power Company's McGuire Nuclear Station Unit 2 during the 1990 Refueling Outage (also referred to as Outage 6, which is in the Second Inspection Period of the First Inspection 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 September 15, 1989.

### 1.1 Class 1 Inspection

The Class 1 Inservice Inspection included examinations on the Reactor Vessel Core Support Structure, Steam Generator 2D Channel Head to Tubesheet Weld, Steam Generator 2C Primary Inlet and Outlet Nozzles Inside Radius Sections and on Pressurizer Safety and Relief Nozzles to Upper Head Welds and Inside Radius Sections. In addition, examinations were performed on Reactor Coolant Pump 2D Seal Gland and Seal Gland Housing Bolting. Also, examinations were performed on Valves 2NC-1, 2NC-2 and 2NC-3 Bolting.

Visual examinations were performed on the Class 1 Pressure Boundary during System Leakage Tests. Also, visual examinations were performed on the Class 1 Component Support for Reactor Coolant Pump 2B Support columns.

The Inconel 600 tubing in Steam Generators 2A, 2B, 2C and 2D was inspected by eddy current during Outage 6. The results are shown in the McGuire 2 Refueling Outage 6 Eddy Current Examination Report.

Reportable indications were found on the Class 1 Inspections shown in this section. Inspection and evaluation data for each reportable indication is found in the McGuire 2 Refueling Outage 6 Eddy Current Examination 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 Residual Heat Removal Heat Exchanger 2A Nozzle Belt to Flange and Head welds and piping integrally welded attachments of the Main Steam (SM) System. Examinations were performed on circumferential butt welds in the Main Steam (SM) System and on Valves 2SV-7 and 2SV-13 intake to valve body and valve body to bonnet welds.

Visual examinations were performed on the Class 2 Pressure Boundary during System and Component Functional and Hydrostatic Tests. Also, visual examinations were performed on Class 2 Component Supports of Containment Air Release and Addition (VQ) and Residual Heat Removal (ND) Systems.

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 consisted of Reactor Coolant Pump 2B, 2C and 2D Flywheel examinations and Steam Generator 2A Feedwater Modification examinations. 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 Examination

No alternate examinations were performed during Outage 6.

### 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

<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>
Containment Air Release and Addition System	Duke Power Co.	VQ	N/A	56
Main Steam System	Duke Power Co.	SM	N/A	70
Main Steam Vent to Atmosphere System	Duke Power Co.	SV	N/A	67
Reactor Coolant System	Duke Power Co.	NC	N/A	82
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	76
Refueling Water System	Duke Power Co.	FW	N/A	54
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	73
Residual Heat Removal System	Duke Power Co.	ND	N/A	63
Nuclear Service Water System	Duke Power Co.	RN	N/A	60
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

<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>
Safety Injection Accumulator Tank 2D	Deita 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 *RDKlein 2-28-91*

Employer: The Hartford Steam Boiler  
Inspection & Insurance Company

Business Address: The Hartford Steam Boiler Inspection  
& Insurance Company  
1117 Perimeter Center W.  
Suite E-301  
Atlanta, GA 30338



PROGRAM: MISSISSIPPI-0A15102  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER B16

DATE: 07/16/91  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 2 CLASS 1 REPORTABLE ITEMS - OUTAGE 6

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ITEM NUMBER ID, NUMBER	DRAWING NUMBERS	LOCS, REQ. NUMBERS	INSP. PROC.	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB	COMMENTS
B16.024.001 2560-TUBES	MEW-2201.01-107		ET ISI-424 IN	00.75 50379	00.045		SELECT CALIBRATION STANDARD PER VOL. 1 SECT. 10.2.52 OUT. 1 SURFACE 1

## 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

<u>Section XI Category</u>	<u>Description</u>	<u>Inspections Required</u>	<u>Inspections Completed</u>	<u>Percentage Completed</u>	<u>Deferral Allowed</u>
B-A	Pressure Retaining Welds in Reactor Vessel	14 Welds	2.5 Welds	17.85%	Yes
B-B	Pressure Retaining Welds in Vessels other than Reactor Vessels	8 Welds	5 Welds	62.50%	No
B-D	Full Penetration Welds of Nozzles in Vessels	36 Inspections	24 Inspections	66.66%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	55 Welds	55 Welds	67% Credited	No
B-F	Pressure Retaining Dissimilar Metal Welds	46 Welds	29.5 Welds	64.13%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch in Diameter	370 Items	229 Items	61.89%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	53 *Connections	35 Connections	66.03%	No
B-H	Integral Attachments for Vessels	12 Attachments	6.33 Attachments	52.75%	No
B-J	Pressure Retaining Welds in Piping	189 Welds	125 Welds	66.13%	No

\*Total connections include CRDMs that are disassembled.

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
B-K-1	Integral Attachments 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	4 Valves	66.66%	Yes
B-N-1	Interior of Reactor Vessel	3 Items	2 Items	66.66%	No
B-N-2	Integrally-Welded Core Support Structures and Interior Attachments to Reactor Vessels	None	N/A	N/A	N/A
B-N-3	Removable Core Support Structures	1 Item	.50 Item	50%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	3 Housings	2 Housings	66.66%	Yes
B-P	All Pressure Retaining Components				No
	System Leakage Test	147 Components	126 Components	85.71%	
	System Hydrostatic Test	21 Components	None	0%	
B-Q	Steam Generator Tubing	100% of Technical Specifications Met			N/A
F1.01	Class 1 Component Supports	196 Supports	130 Supports	66.32%	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	6 Welds	66.66%	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	27 Attachments	17 Attachments	62.96%	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	203 Welds	66.33%	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	67 Components	17 Components	25.37%	
F1.02	Class 2 Component Supports	477 Supports	315 Supports	66.03%	No

## Augmented Inspections

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

### 3.0 Final Inservice Inspection Plan for Outage 6

The final ISI plan presented in this section lists all examinations credited for Outage 6 at McGuire Unit 2. This includes ASME Section XI, Class 1 and 2 and augmented inspections required by the plant technical specifications.

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: NTSIRUB-QAISI02  
FILE: C007135  
PLANT: MCQUIRE UNIT 2  
KEY: ITEM NUMBER B01

DURE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS. REQ.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	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*****	---	---	---	---	***** ***** *****
B01.050.000	REACTOR VESSEL	SHELL TO FLANGE WELD *****	---	---	---	---	***** ***** *****

PROGRAM: NISIRUMB-QAISI02  
FILE: C007135  
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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSPECTION PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIBR BLOCK	COMMENTS
B01.040.000	REACTOR VESSEL	HEAD TO FLANGE WELDS						

PROGRAM: NISIPUMB-QAISI02  
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 LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. NO.	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*****		***	*****	---	*****	*****
B02.012.000	***PRESSURIZER	WELDS***** LONGITUDINAL*****		***	*****	---	*****	*****
B02.040.000	*****STEAM	GENERATORS TUBESHEET TO HEAD WELDS*****		***	*****	---	*****	*****
B02.040.004	2560-01-02	MCM 2201.01-480 MCM 2201.01-14		UT	ISI-150 CS	05.160	50301	STEAM GENERATOR 2D CHANNEL HEAD TO TUBE SHEET P1 TO P2

PROGRAM: NISIRMB-QAISI02  
FILE: C007123  
PLANT: MCGUIPE UNIT 2  
KEY: ITEM NUMBER B03

DUNE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC.	MATERIAL	DIAH./ CALIB
				REQ. NUMBERS	TYPE/GRADE	THICK. BLOCK
B03.090.000	REACTOR VESSEL	NOZZLE TO VESSEL HELDS		***	*****	---
B03.100.000	REACTOR VESSEL	NOZZLE INSIDE RADIUS SECTION		***	*****	---
B03.110.000	***PRESSURIZER	NOZZLE TO VESSEL HELDS		***	*****	---
B03.110.006	2PZR-15	MCM 2201.01-015 MCM 2201.01-16		UT ISI-130	CS	15.00 50338 01.900
B03.110.007	2PZR-16	MCM 2201.01-015 MCM 2201.01-16		UT ISI-130	CS	15.00 50338 01.900
B03.120.000	***PRESSURIZER	NOZZLE INSIDE RADIUS SECTION		***	*****	---
B03.120.005	2PZR-15R	MCM 2201.01-015 MCM 2201.01-16		UT ISI-130	CS	15.00 50338 01.900
B03.120.006	2PZR-16R	MCM 2201.01-015 MCM 2201.01-16		UT ISI-130	CS	15.00 50338 01.900

COMMENTS

PRESSURIZER SAFETY NOZZLE TO  
UPPER HEAD

PRESSURIZER RELIEF NOZZLE TO  
UPPER HEAD

INSIDE RADIUS

INSIDE RADIUS

PROGRAM: NISIRUB-QAISI02  
FILE: C00133  
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 LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS. REQ.	INSP. PROC.	MATERIAL TYPE/GRADE	DIAM. / CALIB. THICK. BLOCK	COMMENTS
B03.140.000	*****STEAM	GENERATORS NOZZLE TO INSIDE RADIUS*****		UT	ISI-130 CS	39.00 50302 05.160	STEAM GENERATOR 2C PRIMARY INLET NOZZLE RADIUSED SECTION
B03.140.005	25GC-INLET	MCM 2201.01-013 MCM 1201.01-480		UT	ISI-130 CS	39.00 50302 05.160	STEAM GENERATOR 2C PRIMARY OUTLET NOZZLE RADIUSED SECTION
B03.140.006	25GC-OUTLET	MCM 2201.01-013 MCM 1201.01-480		UT	ISI-130 CS	39.00 50302 05.160	STEAM GENERATOR 2C PRIMARY OUTLET NOZZLE RADIUSED SECTION

PROGRAM: NISIRMB-QAISI02  
FILE: C007133  
PLANT: MCQUIRE UNIT 2  
KEY: ITEM NUMBER B04

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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

PROGRAM: NISIRUB-QAISI02  
 FILE: C007133  
 PLANT: HCGUIRE UNIT 2  
 KEY: ITEM NUMBER B05

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 HCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE THICK	DIA./ CALIB BLOCK	COMMENTS
B05.010.000	REACTOR VESSEL	NOZZLE TO SAFE END** BUTT WELDS*****		*** *****	*****	----	NOMINAL PIPE SIZE > 4 INCH***** *****
B05.020.000	***PRESSURIZER	NOZZLE TO SAFE END** BUTT WELDS*****		*** *****	*****	----	NOMINAL PIPE SIZE > 4 INCH***** *****
B05.030.000	*****STEAM	GENERATOR NOZZLE TO* SAFE END BUTT WELDS*		*** *****	*****	----	NOMINAL PIPE SIZE > 4 INCH***** *****
B05.050.000	CLASS 1 PIPING	DISSIMILAR METAL**** BUTT WELDS*****		*** *****	*****	----	NOMINAL PIPE SIZE > 4 INCH***** *****

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 2 IN-SERVICE INSPECTION LISTING OUTAGE 6

PROGRAM: NISIRUB-QAISI02  
FILE: C007135  
PLANT: MCQUIRE UNIT 2  
KEY: ITEM NUMBER B06

ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOC.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAH. / THICK	CALIB. BLOCK	COMMENTS
B06.010.000	REACTOR VESSEL	CLOSURE HEAD NUTS						
B06.020.000	REACTOR VESSEL	CLOSURE STUDS						
B06.030.000	REACTOR VESSEL	CLOSURE STUDS						
B06.040.000	REACTOR VESSEL	THREADS IN FLANGE						
B06.050.000	REACTOR VESSEL	CLOSURE WASHERS AND BUSHINGS						
B06.100.000	*CLASS 1 PUMPS	BOLTS AND STUDS						
B06.190.000	*CLASS 1 PUMPS	FLANGE SURFACE						

PROGRAM: NISIRUB-0AJSI02  
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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REG. NUMBERS	MATERIAL TYPE/GRADE THICK	DIA./CALIP. BLOCK	COMMENTS
B07.020.000	***PRESSURIZER	BOLTS, STUDS, AND NUTS *****		*** *****	N	----	*****
B07.030.000	*****STEAM	GENERATOR ***** BOLTS, STUDS, AND NUTS		*** *****	*****	----	*****
B07.050.000	CLASS 1 PIPING	BOLTS, STUDS, AND NUTS *****		*** *****	*****	----	*****
B07.060.000	*CLASS 1 PUMPS	BOLTS, STUDS, AND NUTS *****		*** *****	*****	----	*****
B07.060.004	2RCP-2D-S	HCM 1201.01-120 -----		VT1 QCL-13	-----	02.00 08,000	SEAL GLAND 12 BOLTS PC.15 IF DISASSEMBLE
B07.060.008	2RCP-2D-H	HCM 1201.01-120 -----		VT1 QCL-13	-----	01.00 03,250	SEAL GLAND HOUSING BOLTS-12 PC.66
B07.070.000	CLASS 1 VALVES	BOLTS, STUDS, AND NUTS *****		*** *****	*****	----	*****
B07.070.001	2NC-1	HCM 1205.09-0001-001 MC 2553-2.0 MC-2NC53		VT1 QCL-13	SS	----	6" VALVE

PROGRAM: NISIRUNB-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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B07.070.002	2NC-2	HCM 1205.09-0001-001 MC 2553-2.0 MC-2NC53	_____	VT1	QCL-13	SS	____	_____	6" VALVE
B07.070.003	2NC-3	HCM 1205.09-0001-001 MC 2553-2.0 MC-2NC53	_____	VT1	QCL-13	SS	____	_____	6" VALVE
B07.080.000	**CRD HOUSINGS	BOLTS, STUDS, AND NUTS *****	_____	***	*****	*****	____	*****	INSPECT IF DISASSEMBLED LIST CRD NUMBER INSPECTED

PROGRAM: NISIRUNB-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 6

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B08.010.000	*****REACTOR	***INTEGRALLY WELDED ATTACHMENTS*****	_____	*** *****	*****	___-___	*****	***** ***** *****
B08.020.000	***PRESSURIZER	INTEGRALLY WELDED*** ATTACHMENTS*****	_____	*** *****	*****	___-___	*****	***** ***** *****

PROGRAM: NISIRUNB-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 6

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**		***	*****	*****	---	*****	***** *****
B09.011.000	*****	CIRCUMFERENTIAL***** WELDS*****		***	*****	*****	---	*****	***** *****
B09.012.000	*****	LONGITUDINAL***** WELDS*****		***	*****	*****	---	*****	***** *****
B09.020.000	CLASS 1 PIPING	NOMINAL PIPE SIZE*** < 4 INCH*****		***	*****	*****	---	*****	***** *****
B09.021.000	*****	CIRCUMFERENTIAL***** WELDS*****		***	*****	*****	---	*****	***** *****
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 *****		***	*****	*****	---	*****	***** *****

PROGRAM: NISIRUNB-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 6

ITEM NUMBER	IC. NUMBER	DRAWING NUMBERS	LOCS.	INSP PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B09.040.000	**SOCKET WELDS	*****	***	*****	*****	---	*****	*****
		*****				---		*****

PROGRAM: NISIRUNB-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 INSERVICE INSPECTION LISTING OUTAGE 6

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

PROGRAM: NISIRUNB-QAISI02  
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 6

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL	DIAM./ THICK	CALIB BLOCK	COMMENTS
B13.010.000	REACTOR VESSEL	VESSEL INTERIOR***** *****	_____	___	_____	_____	___	_____	***** *****
B13.030.000	REACTOR VESSEL	CORE SUPPORT STRUCTURE	_____	___	_____	_____	___	_____	_____
B13.030.001	2RPV-CORE-SUP	MCM 2201.01-21	_____	___	VT3 QCL-14	_____	___	_____	INSPECT WHEN STRUCTURE IS REMOVED FROM VESSEL PARTIAL OUT.6

PROGRAM: HISIRUNB-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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B14.010.000	REACTOR VESSEL	CRD HOUSING WELDS*** *****		*** **	14*	*****	---	*****	INSPECT ONE OF THE FOLLOWING WELDS EACH INSPECTION PERIOD

PROGRAM: NISIRUNB-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 6

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL THICK	DIAM./ CALIB BLOCK	COMMENTS
B15.010.000	REACTOR VESSEL	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	****	***** *****
B15.010.001	2RPV	MC-2553-1.0 -----	_____	VT2 QCL-15	-----	___	----	REACTOR VESSEL SYSTEM LEAKAGE TEST
B15.011.000	REACTOR VESSEL	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	****	***** *****
B15.020.000	***PRESSURIZER	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	****	***** *****
B15.020.001	2PZR	MC-2553-2.0 -----	_____	VT2 QCL-15	-----	___	----	PRESSURIZER SYSTEM LEAKAGE TEST
B15.021.000	***PRESSURIZER	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	****	***** *****
B15.030.000	*****STEAM	GENERATORS PRESSURE* RETAINING BOUNDARY**	_____	*** *****	*****	___	****	***** *****
B15.030.001	2SG-2A	MC-2553-1.0 -----	_____	VT2 QCL-15	-----	___	----	STEAM GENERATOR 2A SYSTEM LEAKAGE TEST

PROGRAM: NISIRUNB-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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B15.030.002	2SG-2B	MC-2553-1.0		VT2	QCL-15				STEAM GENERATOR 2B SYSTEM LEAKAGE TEST
B15.030.003	2SG-2C	MC-2553-1.0		VT2	QCL-15				STEAM GENERATOR 2C SYSTEM LEAKAGE TEST
B15.030.004	2SG-2D	MC-2553-1.0		VT2	QCL-15				STEAM GENERATOR 2D SYSTEM LEAKAGE TEST
B15.031.000	*****STEAM	GENERATORS PRESSURE* RETAINING BOUNDARY**		***	*****	*****		*****	***** *****
B15.050.000	CLASS 1 PIPING	PRESSURE RETAINING** BOUNDARY*****		***	*****	*****		*****	***** *****
B15.050.001	2MC-2553.1.0	MC-2553-1.0		VT2	QCL-15				MC SYSTEM SYS LEAK TEST INCL MC-2499-MC1,MC2,MC7,MC20.01
B15.050.002	2MC-2553.2.0	MC-2553-2.0		VT2	QCL-15				MC SYSTEM SYS LEAK TEST INCL. MC-2499-MC4,MC5
B15.050.004	2MC-2554.1.0	MC-2554-1.0		VT2	QCL-15				NV SYSTEM SYSTEM LEAKAGE TEST INCL. MC-2499-NV1,NV4

PROGRAM: NISIRUMB-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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PRIC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B15.050.005	2MC-2554-1.1	MC-2554-1.1	_____	VT2	QCL-15	-----	---	-----	NV SYSTEM SYSTEM LEAKAGE TEST INCL. MC-2499-NV1,NV4
B15.050.006	2MC-2554-1.2	MC-2554-1.2	_____	VT2	QCL-15	-----	---	-----	NV SYSTEM SYSTEM LEAKAGE TEST
B15.050.007	2MC-2561-1.0	MC-2561-1.0	_____	VT2	QCL-15	-----	---	-----	ND SYSTEM SYSTEM LEAKAGE TEST
B15.050.008	2MC-2562-1.0	MC-2562-1.0	_____	VT2	QCL-15	-----	---	-----	NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.009	2MC-2562-2.0	MC-2562-2.0	_____	VT2	QCL-15	-----	---	-----	NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.010	2MC-2562-2.1	MC-2562-2.1	_____	VT2	QCL-15	-----	---	-----	NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.011	2MC-2562-3.0	MC-2562-3.0	_____	VT2	QCL-15	-----	---	-----	NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.012	2MC-2562-3.1	MC-2562-3.1	_____	VT2	QCL-15	-----	---	-----	NI SYSTEM SYSTEM LEAKAGE TEST

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

DUNE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
B15.060.000	*CLASS 1 PUMPS	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	*****	***** *****
B15.060.001	2RPC-2A	MC-2553-1.0 -----	_____	VT2 QCL-15	-----	___	-----	REACTOR COOLANT PUMP 2A SYSTEM LEAKAGE TEST
B15.060.002	2RPC-2B	MC-2553-1.0 -----	_____	VT2 QCL-15	-----	___	-----	REACTOR COOLANT PUMP 2B SYSTEM LEAKAGE TEST
B15.060.003	2RPC-2C	MC-2553-1.0 -----	_____	VT2 QCL-15	-----	___	-----	REACTOR COOLANT PUMP 2C SYSTEM LEAKAGE TEST
B15.060.004	2RPC-2D	MC-2553-1.0 -----	_____	VT2 QCL-15	-----	___	-----	REACTOR COOLANT PUMP 2D SYSTEM LEAKAGE TEST
B15.061.000	*CLASS 1 PUMPS	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	*****	***** *****
B15.070.000	CLASS 1 VALVES	PRESSURE RETAINING** BOUNDARY*****	_____	*** *****	*****	___	*****	TO BE DONE WITH B15.050.000 ***** COMPLETED WITH B15.050.000

PROGRAM: NISIRUNB-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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16.020.000	*****STEAM	GENERATOR TUBING*** *****		***	*****	****	---	****	***** *****
B16.021.000	*****SGA STEAM	GENERATOR TUBING**** *****		***	*****	****	---	****	***** *****
B16.021.001	2SGA-TUBES	MCM-2201.01-187 -----		ET	ISI-424	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	*****SGD STEAM	GENERATOR TUBING**** *****		***	*****	****	---	****	***** *****

PROGRAM: NISIPURB-QAISI02  
FILE: C00133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER B16

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAH. / THICK	CALIB	COMMENTS
B16.024.001	2SGD-TUBES	HCM-2201.01-187		ET 151-424	IN	00.75	503.9	SELECT CALIBRATION STANDARD PER VOL.1 SECT.10.2

PROGRAM: NISIRUN8-QAISI02  
FILE: CC07123  
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 LISTING OUTAGE 6

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
C01.000.000	*****CLASS 2	PRESSURE RETAINING** WELDS IN VESSELS****	_____	***	*****	****	____	****	***** ***** *****
C01.010.000	*****SHELL	CIRCUMFERENTIAL***** WELDS*****	_____	***	*****	****	____	****	***** ***** *****
C01.010.060	2RHR-2A-3-4	MCM 1201.06-22 -----	_____	RT	NDE-12	SS	37.25 00.750	-----	RHR HEAT EXCHANGER 2A NOZZLE BELT TO FLANGE ----- -----
C01.020.000	*****HEAD	CIRCUMFERENTIAL***** WELDS*****	_____	***	*****	****	____	****	***** ***** *****
C01.020.001	2RHR-2A-2-3	MCM 1201.06-22 -----	_____	RT	NDE-12	SS	37.25 00.750	-----	RHR HEAT EXCHANGER 2A NOZZLE BELT TO HEAD ----- -----

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	REQ. NUMBERS	TYPE/GRADE	THICK.	BLOCK	COMMENTS
C02.000.000	*****PRESSURE	RETAINING NOZZLE HELDS IN VESSELS		***	*****	—	***	*****
C02.010.000	*****NOZZLES	IN VESSELS		***	*****	—	*****	1/2" NOMINAL THICKNESS AND LESS
C02.021.000	*****NOZZLE	TO SHELL OR HEAD HELDS		***	*****	—	***	*****
C02.022.000	*****NOZZLE	INSIDE RADIUS SECTION		***	*****	—	***	*****

PROGRAM: NISIRUNB-QAISI02  
 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 LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
C03.000.000	*****CLASS 2	INTEGRAL ATTACHMENTS *****		***	*****	****	---	****	***** *****
C03.040.000	*****PIPING	INTEGRALLY WELDED ATTACHMENT*****		***	*****	****	---	****	***** *****
C03.040.026	2-MCR-SH-155	MC-2SM-2B1 MCSR2 2SHA		MT	NDE-25	CS	---	---	6 LUG'S PCS# 14,5)(8,10)(9,11) STM. GEN.2B

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

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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

PROGRAM: NISIRUNB-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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
C05.000.000	*****PRESSURE	RETAINING WELDS IN** PIPING*****	_____	*** *****	*****	___-___	*****	***** *****
C05.010.000	CLASS 2 PIPING	1/2" AND LESS***** NOMINAL WALL THICK.*	_____	*** *****	*****	___-___	*****	***** *****
C05.011.000	*****	CIRCUMFERENTIAL WELD *****	_____	*** *****	*****	___-___	*****	***** *****
C05.012.000	*****	LONGITUDINAL WELD*** *****	_____	*** *****	*****	___-___	*****	***** *****
C05.020.000	CLASS 2 PIPING	> 1/2" NOMINAL***** THICKNESS*****	_____	*** *****	*****	___-___	*****	***** *****
C05.021.000	*****	CIRCUMFERENTIAL***** WELDS*****	_____	*** *****	*****	___-___	*****	***** *****
C05.021.672	2SM-5C-E	MCFI-2SM-13 MC 2SM-5C	_____	UT ISI-120	CS	10.00 01.500	50249	----- ----- -----
C05.021.672A	2SM-5C-E	MCFI-2SM-13 MC 2SM-5C	_____	MT NDE-25	CS	10.00 01.500	-----	----- ----- -----

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

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.021.673	2SM-5C-F	MCFI-2SM-13 MC 2SM-5C	_____ _____ _____	UT	ISI-120	CS	10.00 01.500	50249	----- ----- -----
C05.021.673A	2SM-5C-F	MCFI-2SM-13 MC 2SM-5C	_____ _____ _____	MT	NDE-25	CS	10.00 01.500	-----	----- ----- -----
C05.021.674	2SM-5C-G	MCFI-2SM-13 MC 2SM-5C	_____ _____ _____	UT	ISI-120	CS	10.00 01.500	50249	----- ----- -----
C05.021.674A	2SM-5C-G	MCFI-2SM-13 MC 2SM-5C	_____ _____ _____	MT	NDE-25	CS	10.00 01.500	-----	----- ----- -----
C05.021.675	2SM-5C-H	MCFI-2SM-13 MC 2SM-5C	_____ _____ _____	UT	ISI-120	CS	10.00 01.500	50249	----- ----- -----
C05.021.675A	2SM-5C-H	MCFI-2SM-13 MC 2SM-5C	_____ _____ _____	MT	NDE-25	CS	10.00 01.500	-----	----- ----- -----

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. NO.	ITSP. REQ. NO.	PROC. NO.	MATERIAL TYPE/GRADE	DIA. / THICK.	CALIB. BLOCK	COMMENTS
C06.020.000		HCFI-2SV-1 MCH 1205.09-011							
C06.020.005	2SV-7-1	HCFI-2SV-2 MCH 1205.09-011		MT	NDE-25	CS	06.00 01.000		INTAKE TO VALVE BODY WELD
C06.020.006	2SV-7-2	HCFI-2SV-2 MCH 1205.09-011		MT	NDE-25	CS	06.00 01.000		VALVE BODY TO BOPPET WELD
C06.020.007	2SV-13-1	HCFI-2SV-1 MCH 1205.09-011		MT	NDE-25	CS	06.00 01.000		INTAKE TO VALVE BODY WELD
C06.020.008	2SV-13-2	HCFI-2SV-1 MCH 1205.09-011		MT	NDE-25	CS	06.00 01.000		VALVE BODY TO BOPPET WELD

PROGRAM: NISIRUB-QAISI02  
FILE: C007133  
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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. NO.	INSPECTION PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	THICKNESS	CALIBRATION BLOCK	COMMENTS
C07.010.000	*****PRESSURE	VESSLS***** *****		VT2 QCL-15	*****	---	*****	PRESSURE RETAINING COMPONENTS* *****
C07.011.000	*****PRESSURE	VESSLS***** *****		VT2 QCL-15	*****	---	*****	PRESSURE RETAINING COMPONENTS* *****
C07.011.005	2REGN-HX	HC-2554-1.2		VT2 QCL-15	---	---	---	REGENERATIVE HEAT EXCHANGER SYSTEM HYDRO TEST PARTIAL
C07.011.006	2EX-LETDOWN-HX	HC-2554-1.2		VT2 QCL-15	---	---	---	EXCESS LETDOWN HEAT EXCHANGER SYSTEM HYDRO TEST
C07.011.007	2LETDOWN-HX	HC-2554-2.0		VT2 QCL-15	---	---	---	LETDOWN HEAT EXCHANGER SYSTEM HYDRO TEST
C07.011.008	2SEALWATER-HX	HC-2554-2.0		VT2 QCL-15	---	---	---	SEALWATER HEAT EXCHANGER SYSTEM HYDRO TEST
C07.011.009	2VOL CONT-TANK	HC-2554-2.0		VT2 QCL-15	---	---	---	VOLUME CONTROL TANK SYSTEM HYDRO TEST
C07.011.020	2CONT SPRAY-2A	HC-2563-1.0		VT2 QCL-15	---	---	---	CONT SPRAY HEAT EXCHANGER 2A SYSTEM HYDRO TEST

PROGRAM: MISIRUMB-QAISI02  
FILE: C007133  
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 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE THICK	DIAH./ CALIB BLOCK	COMMENTS
C07.011.021	2CONT SPRAY-2B	MC-2563-1.0		VT2 QCL-15			CONT SPRAY HEAT EXCHANGER 2B SYSTEM HYDRO TEST
C07.020.000	*****PIPING						PRESSURE RETAINING COMPONENTS*
C07.020.001	2MC-2554-3.1	MC-2554-3.1		VT2 QCL-15			NV SYSTEM - FUNCTIONAL TEST
C07.020.002	2MC-2561-1.0	MC-2561-1.0		VT2 QCL-15			MD SYSTEM - FUNCTIONAL TEST PARTIAL
C07.020.003	2MC-2562-3.0	MC-2562-3.0		VT2 QCL-15			NI SYSTEM - FUNCTIONAL TEST
C07.020.004	2MC-2562-3.1	MC-2562-3.1		VT2 QCL-15			MI SYSTEM - FUNCTIONAL TEST
C07.020.006	2MC-2554-2.0	MC-2554-2.0		VT2 QCL-15			NV SYSTEM - FUNCTIONAL TEST PARTIAL
C07.020.007	2MC-2554-3.0	MC-2554-3.0		VT2 QCL-15			NV SYSTEM - FUNCTIONAL TEST PARTIAL

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ACQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOTS.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB. BLOCK	COMMENTS
C07.020.009	2HC-2562-1.0	HC-2562-1.0		VT2 QCL-15				NI SYSTEM - FUNCTIONAL TEST
C07.020.010	2HC-2571-1.0	HC-2571-1.0		VT2 QCL-15				FM SYSTEM FUNCTIONAL TEST
C07.020.011	2HC-2572-1.0	HC-2572-1.0		VT2 QCL-15				HM SYSTEM - FUNCTIONAL TEST
C07.020.012	2HC-1554-5.0	HC-1554-5.0		VT2 QCL-15				PARTIAL
C07.021.002	2HC-2553-2.0	HC-2553-2.0		VT2 QCL-15				MC SYSTEM - HYDRO TEST
C07.021.005	2HC-2554-1.0	HC-2554-1.0		VT2 QCL-15				PARTIAL
C07.021.006	2HC-2554-1.1	HC-2554-1.1		VT2 QCL-15				MC SYSTEM - HYDRO TEST INCL. SHEET 2,3,4, & 5
C07.021.007	2HC-2554-1.2	HC-2554-1.2		VT2 QCL-15				PARTIAL
								MC SYSTEM - HYDRO TEST INCL. SHEET 2 & 3

PROGRAM: NISIRUM-QAISI02  
 FILE: C007133  
 PLANT: MCGUIRE UNIT 2  
 KEY: ITEM NUMBER C07

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAH./THICK	CALIB BLOCK	COMMENTS
C07.021.008	2MC-2554-1.3	MC-2554-1.3		VT2	QCL-15	----	----	----	NV SYSTEM - HYDRO TEST PARTIAL
C07.021.009	2MC-2554-2.0	MC-2554-2.0		VT2	QCL-15	----	----	----	NV SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6 & 7 PARTIAL
C07.021.010	2MC-2554-3.0	MC-2554-3.0		VT2	QCL-15	----	----	----	NV SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5, & 6 PARTIAL
C07.021.011	2MC-2554-3.1	MC-2554-3.1		VT2	QCL-15	----	----	----	NV SYSTEM - HYDRO TEST INCL. SHEET 2,3, & 4 PARTIAL
C07.021.014	2MC-2555-2.0	MC-2555-2.0		VT2	QCL-15	----	----	----	NR SYSTEM - HYDRO TEST
C07.021.015	2MC-1556-1.1	MC-1556-1.1		VT2	QCL-15	----	----	----	NB SYSTEM - HYDRO TEST
C07.021.017	2MC-2561-1.0	MC-2561-1.0		VT2	QCL-15	----	----	----	ND SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6,7 & 8 PARTIAL
C07.021.019	2MC-2562-2.0	MC-2562-2.0		VT2	QCL-15	----	----	----	NI SYSTEM - HYDRO TEST INCL. SHEET 2 PARTIAL

PROGRAM: NISIRUB-GAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

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MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C07.021.020	2HC-2562-2.1	HC-2562-2.1		VT2 QCL-15				NI SYSTEM - HYDRO TEST INCL. SHEET 2 & 3 PARTIAL
C07.021.021	2HC-2562-3.1	HC-2562-3.1		VT2 QCL-15				NI SYSTEM - HYDRO TEST INCL. SHEET 2 PARTIAL
C07.021.023	2HC-2563-1.0	HC-2563-1.0		VT2 QCL-15				NS SYSTEM - HYDRO TEST INCL. SHEET 2,3,4, & 5 PARTIAL
C07.021.026	2HC-1567-2.1	HC-1567-2.1		VT2 QCL-15				WG SYSTEM - HYDRO TEST
C07.021.027	2HC-2571-1.0	HC-2571-1.0		VT2 QCL-15				FM SYSTEM - HYDRO TEST INCL. SHEET 2 PARTIAL
C07.021.030	2HC-2572-2.0	HC-2572-2.0		VT2 QCL-15				NH SYSTEM - HYDRO TEST INCL. SHEET 2 PARTIAL
C07.021.032	2HC-2573-3.0	HC-2573-3.0		VT2 QCL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2
C07.021.041	2HC-2562-3.0	HC-2562-3.0		VT2 QCL-15				NI SYSTEM - HYDRO TEST INCL. SHEET 2,3,4,5,6 & 7 PARTIAL

PROGRAM: NISIRUNB-QAISIO2  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C07.021.042	2MC-1554-5.0	MC-1554-5.0		VT2	QCL-15				NV SYSTEM - HYDRO TEST
C07.030.000	*****PUMPS	***** *****		***	*****	*****		*****	PRESSURE RETAINING COMPONENTS* SYSTEM PRESSURE TEST*****
C07.030.001	2 CHG PUMP 2A	MC-2554-3.1		VT2	QCL-15				CENTRIFUGAL CHARGING PUMP 2A FUNCTIONAL TEST
C07.030.002	2 CHG PUMP 2B	MC-2554-3.1		VT2	QCL-15				CENTRIFUGAL CHARGING PUMP 2B FUNCTIONAL TEST
C07.030.003	2 RHR PUMP 2A	MC-2561-1.0		VT2	QCL-15				RESIDUAL HEAT REMOVAL PUMP 2A FUNCTIONAL TEST
C07.030.004	2 RHR PUMP 2B	MC-2561-1.0		VT2	QCL-15				RESIDUAL HEAT REMOVAL PUMP 2B FUNCTIONAL TEST
C07.031.000	*****PUMPS	***** *****		***	*****	*****		*****	PRESSURE RETAINING COMPONENTS* SYSTEM HYDRO TEST*****
C07.031.002	2CHG PUMP 2A	MC-2554-3.1		VT2	QCL-15				CENTRIFUGAL CHARGING PUMP 2A HYDRO TEST

PROGRAM: MISPLUMB-GAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. NO.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE THICK	CALIB. BLOCK	COMMENTS
C07.031.003	2SA INJ PUMP 2B	MC-2554-3.1		VT2 QCL-15			CENTRIFUGAL CHARGING PUMP 2B HYDRO TEST
C07.031.006	2SPRAY PUMP 2A	MC-2563-1.0		VT2 QCL-15			CONTAINMENT SPRAY PUMP 2A HYDRO TEST
C07.031.007	2SPRAY PUMP 2B	MC-2563-1.0		VT2 QCL-15			CONTAINMENT SPRAY PUMP 2B HYDRO TEST
C07.031.008	2SA INJ PMP 2A	MC-2562-3.0		VT2 QCL-15			SAFETY INJECTION PUMP 2A HYDRO TEST
C07.031.009	2SA INJ PMP 2B	MC-2562-3.0		VT2 QCL-15			SAFETY INJECTION PUMP 2B HYDRO TEST
C07.040.000	*****VALVES	*****		*****			PRESSURE RETAINING COMPONENTS *****

PROGRAM: NISIRAB-GAIS102  
FILE: C007135  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER 001

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOC.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./CALIB THICK BLOCK	COMMENTS
D01.010.000	*****PRESSURE	RETAINING COMPONENTS					EXAMINATION CATEGORY 5-A
D01.012.001	2MC-2553-2.0	MC-2553-2.0		VT2 QCL-15			NV SYSTEM - HYDRO TEST
D01.012.002	2MC-2554-2.0	MC 2554-2.0		VT2 QCL-15			NV SYSTEM - HYDRO TEST INCL. SHEET 2, 3, 4 & 5 PARTIAL
D01.012.003	2MC-2554-3.1	MC 2554-3.1		VT2 QCL-15			NV SYSTEM - HYDRO TEST
D01.012.005	2MC-2554-5.0	MC 2554-5.0		VT2 QCL-15			NV SYSTEM - HYDRO TEST INCL. SHEET 2, 3, 4 & 5 PARTIAL
D01.012.006	2MC-1567-2.1	MC-1567-2.1		VT2 QCL-15			MG SYSTEM - HYDRO TEST

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

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	THICK.	CALIB BLOCK	COMMENTS
002.010.000	*****PRESSURE	RETAINING COMPONENTS *****		***	*****	*****		*****	EXAMINATION CATEGORY D-B***** *****
002.011.000	*****SYSTEM	FUNCTIONAL***** TEST*****		***	*****	*****		*****	***** *****
002.011.002	2MC-2573-1.0	MC 2573-1.0		VT2	QCL-15	----		----	KC SYSTEM
002.011.003	2MC-2573-1.1	MC 2573-1.1		VT2	QCL-15	----		----	KC SYSTEM
002.011.011	2MC-2574-1.1	MC 2574-1.1		VT2	QCL-15	----		----	RN SYSTEM
002.011.012	2MC-2574-2.0	MC 2574-2.0		VT2	QCL-15	----		----	RN SYSTEM
002.011.013	2MC-2574-2.1	MC 2574-2.1		VT2	QCL-15	----		----	
002.011.014	2MC-2574-3.0	MC 2574-3.0		VT2	QCL-15	----		----	RN SYSTEM

PROGRAM: HISIRUB-QAISI02  
FILE: C007133  
PLANT: MCQUIRE UNIT 2  
KEY: ITEM NUMBER D02

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROT. REQ. NUMBERS	MATERIAL TYPE/GRADE	THICK. BLOCK	COMMENTS
D02.011.015	2MC-2574-3.1	MC 2574-3.1		VT2 QCL-15			RH SYSTEM
D02.011.017	2MC-2592-1.0	MC 2592-1.0		VT2 QCL-15			CA SYSTEM
D02.011.018	2MC-2592-1.1	MC 2592-1.1		VT2 QCL-15			PARTIAL
D02.011.019	2MC-2593-1.2	MC 2593-1.2		VT2 QCL-15			CA SYSTEM
D02.011.020	2MC-2609-1.0	MC 2609-1.0		VT2 QCL-15			PARTIAL
D02.011.021	2MC-2609-1.1	MC 2609-1.1		VT2 QCL-15			KB SYSTEM
D02.011.022	2MC-2609-2.0	MC 2609-2.0		VT2 QCL-15			PARTIAL
D02.011.023	2MC-2609-2.1	MC 2609-2.1		VT2 QCL-15			LD SYSTEM
							PARTIAL

PROGRAM: NISIRUNG-CAISI02  
 FILE: C007133  
 PLANT: MCGUIRE UNIT 2  
 KEY: ITEM NUMBER D02

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
D02.011.028	2MC-1573-4.0	MC-1573-4.0		VT2 QCL-15				KC SYSTEM
D02.011.029	2MC-1574-1.0	MC-1574-1.0		VT2 QCL-15				RN SYSTEM
D02.011.031	2MC-1574-3.0	MC-1574-3.0		VT2 QCL-15				RN SYSTEM
D02.011.033	2MC-1574-2.0	MC-1574-2.0		VT2 QCL-15				CL.C SYS LEAK TEST
D02.011.034	2MC-1574-1.1	MC-1574-1.1		VT2 QCL-15				CL.C SYS LEAK TEST
D02.012.007	2MC-2573-3.0	MC 2573-3.0		VT2 QCL-15				KC SYSTEM - HYDRO TEST INCL. SHEET 2 & 3 PARTIAL
D02.020.000	*****INTEGRAL	ATTACHMENTS***** *****		*** *****	*****		*****	EXAM CATEGORY D-B, COMPONENTS SUPPORTS AND RESTRAINTS*****

PROGRAM: MISIRUM-GAIS102  
 FILE: C007133  
 PLANT: MCQUIRE UNIT 2  
 KEY: ITEM NUMBER D03

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 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCQUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC'S.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIA./THICK	CALIB. BLOCK	COMMENTS
D03.010.000	*****PRESSURE	RETAINING COMPONENTS *****	---	---	---	---	---	EXAMINATION CATEGORY D-C***** *****
D03.011.000	*****SYSTEM	INSERVICE TEST***** *****	---	---	---	---	---	***** ***** *****
D03.011.001	2MC-2570-1.0	MC 2570-1.0	---	VT2 QCL-15	---	06.00	---	KF SYSTEM ----- -----
D03.012.001	2MC-2570-1.0	MC 2570-1.0	---	VT2 QCL-15	---	06.00	---	KF SYSTEM - HYDRO TEST INCL. SHEET 2,3,4 & 5 ----- PARTIAL

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

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAH./ THICK.	CALIB. BLOCK	COMMENTS
E01.001.000	*****REACTOR	COOLANT PUMPS***** FLYHHEEL EXAMS*****	_____	*** *****	*****	_____	*****	***** *****
E01.001.002	2RCP-2B	MCM 1201.01-7	_____	UT ISI-117	_____	_____	_____	_____
E01.001.003	2RCP-2C	MCM 1201.01-7	_____	UT ISI-117	_____	_____	_____	_____
E01.001.004A	2RCP-2D	MCM 1201.01-7	_____	HT NDE-25	_____	_____	_____	HT IF REMOVED

PROGRAM: NISIRUMB-QA1S102  
FILE: C007133  
PLANT: HCGUIRE UNIT 2  
KEY: ITEM NUMBER E02

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOCS.	INSP. REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL THICK	DIAH./ BLOCK	COMMENTS
E02.001.000	*****STEAM							ROM 45 THRU 49 AND VERIPHEAL TUBES, TO BE DONE EACH OUTAGE

PROGRAM: NISIRURE-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER E03

DUKE POWER COMPANY  
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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS. REQ.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
E03.001.000	*****PIPE							



PROGRAM: NISIRUB-QAISI02  
FILE: C007155  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER E06

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QUALITY ASSURANCE DEPARTMENT  
PPE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 2 INSERVICE INSPECTION LISTING OUTAGE 6

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ITEM NUMBER	ID NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROT. NUMBERS	MATERIAL TYPE/GRADE	THICK.	DIAM.	CALIB	COMMENTS
E06.001.000										***** BULLETIN 88-08*****

PROGRAM: NLSIPMB-QAISI02  
FILE: C007153  
PLANT: MCGUIRE UNIT 2  
CY: ITEM NUMBER F1.

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK.	CALIB.	COMMENTS
F1.01.000	*****CLASS 1	SUPPORTS***** *****						
F1.01.742	2RCP-B-SUPPORT	MC 1070-7 MC 1070-17		VT	QCL-14			REACTOR COOLANT PUMP SUPPORT COLLARS (3-ASSEMBLIES)
F1.02.000	*****CLASS 2	SUP. JRTS***** *****						
F1.02.179	2-MCA-VQ-5002	MCSR0 2VQ350		VT	QCL-14	06.00		RIGID SUPPORT
F1.02.509	2-MCA-HD-6103	MCSR0 2HD-350		VT	QCL-14	06.00		MECHANICAL SHAFTER
F1.02.510	2-MCA-HD-6104	MCSR0 2HD-350		VT	QCL-14	06.00		RIGID SUPPORT
F1.02.511	2-MCA-HD-6105	MCSR0 2HD-350		VT	QCL-14	06.00		RIGID SUPPORT
F1.02.512	2-MCA-HD-6106	MCSR0 2HD-350		VT	QCL-14	06.00		RIGID SUPPORT

PROGRAM: MISIRMB-QAISI02  
 FILE: C007135  
 PLANT: MCGUIRE UNIT 2  
 KEY: ITEM NUMBER FL

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. REQ.	INSPECTION PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	THICK	DIAH.	CALIB	COMMENTS
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
F1.02.513	2-MCA-ND-6107	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT
F1.02.514	2-MCA-ND-6108	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT
F1.02.515	2-MCA-ND-6109	MCSR0 2ND-350	VT	QCL-14	08.00				MECHANICAL SHIMMER
F1.02.516	2-MCA-ND-6110	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT
F1.02.517	2-MCA-ND-6111	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT
F1.02.518	2-MCA-ND-6112	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT
F1.02.519	2-MCA-ND-6113	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT
F1.02.520	2-MCA-ND-6114	MCSR0 2ND-350	VT	QCL-14	08.00				RIGID SUPPORT

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

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE THICK	DIAH./ CALIB BLOCK	COMMENTS
F1.02.521	2-MCA-ND-6115	MCSR0 2ND-350	---	VT QCL-14	---	08.00	RIGID SUPPORT
F1.02.522	2-MCA-ND-6116	MCSR0 2ND-350	---	VT QCL-14	---	08.00	RIGID SUPPORT
F1.02.523	2-MCA-ND-6117	MCSR0 2ND-350	---	VT QCL-14	---	08.00	RIGID SUPPORT
F1.02.524	2-MCA-ND-6123	MCSR0 2ND-350	---	VT QCL-14	---	08.00	RIGID SUPPORT
F1.02.525	2-MCA-ND-6125	MCSR0 2ND-350	---	VT QCL-14	---	08.00	RIGID SUPPORT
F1.02.526	2-MCA-ND-6126	MCSR0 2ND-350	---	VT QCL-14	---	08.00	RIGID SUPPORT
F1.03.000	*****CLASS 3	SUPPORTS*****	---	---	---	---	
F1.03.082	2-MCA-CA-5545	MCSR0 2CA354	---	VT QCL-14	---	04.00	RIGID SUPPORT

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

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ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.083	2-MCA-CA-5546	MCSR0 2CA354	_____	VT	QCL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.084	2-MCA-CA-5547	MCSR0 2CA354	_____	VT	QCL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.085	2-MCA-CA-5548	MCSR0 2CA354	_____	VT	QCL-14	-----	04.00	-----	RIGID SUPPORT
F1.03.086	2-MCA-CA-5549	MCSR0 2CA354	_____	VT	QCL-14	-----	04.00	-----	RIGID SUPPORT

#### 4.0 Results of Inspections Performed During Outage 6

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: NISIRUHD-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER B02

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
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ITEM NUMBER	ITEM NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	CEG. REF.	COMMENTS
B02.040.004	2SG0-01-02	09/13/90	CLR	L	Y	

PROGRAM: NISIRUMD-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER B03

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B03.110.006	2PZR-15	09/24/90	CLR	L	N	_____
B03.110.007	2PZR-16	09/24/90	CLR	L	N	_____
B03.120.005	2PZR-15R	09/24/90	CLR	-	N	_____
B03.120.006	2PZR-16R	09/24/90	CLR	-	N	_____
B03.140.005	2SGC-INLET	09/23/90	CLR	L	N	_____
B03.140.006	2SGC-OUTLET	09/23/90	CLR	L	N	_____

PROGRAM: NISIRUND-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 6

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
B07.060.004	2RCP-2D-S	09/12/90	CLR	-	N	_____
B07.060.008	2RCP-2D-H	09/12/90	CLR	-	N	_____
B07.070.001	2NC-1	09/12/90	CLR	-	N	_____
B07.070.002	2NC-2	09/12/90	CLR	-	N	_____
B07.070.003	2NC-3	09/12/90	CLR	-	N	_____

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 2 INSERVICE INSPECTION RESULTS - OUTAGE 6

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCQUIRE UNIT 2  
KEY: ITEM NUMBER B13

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B13.030.001	2RPV-CORE-SUP	10/09/90	REC	L	N	

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

DUKE POWER COMPANY  
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B-5.010.001	2RPV	12/24/90	CLR	-	N	
B15.020.001	2PZR	12/24/90	CLR	-	N	
B15.030.001	2SG-2A	12/24/90	CLR	-	N	
B15.030.002	2SG-2B	12/24/90	CLR	-	N	
B15.030.003	2SG-2C	12/24/90	CLR	-	N	
B15.030.004	2SG-2D	12/24/90	CLR	-	N	
B15.050.001	2MC-2553-1.0	12/24/90	CLR	-	N	
B15.050.002	2MC-2553-2.0	12/24/90	CLR	-	N	
B15.050.004	2MC-2554-1.0	12/24/90	CLR	-	N	
B15.050.005	2MC-2554-1.1	12/24/90	CLP	-	N	
B15.050.006	2MC-2554-1.2	12/24/90	CLR	-	N	
B15.050.007	2MC-2561-1.0	12/24/90	CLR	-	N	
B15.050.008	2MC-2562-1.0	12/24/90	CLR	-	N	
B15.050.009	2MC-2562-2.0	12/24/90	CLR	-	N	
B15.050.010	2MC-2562-2.1	12/24/90	CLR	-	N	

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

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEOT. REF. =====	COMMENTS =====
B15.050.011	2MC-2562-3.0	12/24/90	CLR	-	N	_____
B15.050.012	2MC-2562-3.1	12/24/90	CLR	-	N	_____
B15.060.001	2RPC-2A	12/24/90	CLR	-	N	_____
B15.060.002	2RPC-2B	12/24/90	CLR	-	N	_____
B15.060.003	2RPC-2C	12/24/90	CLR	-	N	_____
B15.060.004	2RPC-2D	12/24/90	CLR	-	N	_____

DUWE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
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PROGRAM: NISIRUB-QAISI04  
FILE: C007133  
UNIT: MCQUIRE UNIT 2  
REF: ITEM NUMBER B16

ITEM NUMBER	TO NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
B16.021.001	2SGA-TUBES	10/03/90	REP	-	N	
B16.022.001	2SGB-TUBES	09/22/90	REP	-	N	
B16.023.001	2SGC-TUBES	10/04/90	REP	-	N	
B16.024.001	2SGD-TUBES	09/25/90	REP	-	N	

PROGRAM: MISIRUND-QAISI04  
FILE: C007132  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C01

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
C01.010.060	2RHR-2A-3-4	09/26/90	CLR	L	N	_____
C01.020.001	2RHR-2A-2-3	09/27/90	CLR	-	N	_____

PROGRAM: MISPLR80-QAISI04  
 FILE: C007133 UNIT 2  
 PLANT: MCGUIRE  
 KEY: ITEM NUMBER C03

DURE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GED. REF.	COMMENTS
C03.040.026	2-MCR-SM-155	09/17/90	CLR	-	N	

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

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QUALITY ASSURANCE DEPARTMENT  
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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
C05.021.672	2SM-5C-E	09/27/90	CLR	L	N	_____
C05.021.672A	2SM-5C-E	09/25/90	CLR	-	N	_____
C05.021.673	2SM-5C-F	09/27/90	CLR	L	Y	_____
C05.021.673A	2SM-5C-F	09/25/90	CLR	-	N	_____
C05.021.674	2SM-5C-G	09/27/90	CLR	L	Y	_____
C05.021.674A	2SM-5C-G	09/25/90	CLR	-	N	_____
C05.021.675	2SM-5C-H	09/27/90	CLR	L	N	_____
C05.021.675A	2SM-5C-H	09/25/90	CLR	-	N	_____

PROGRAM: HESIRUD-QAISI04  
 FILE: C007133  
 PLANT: MCGUIRE UNIT 2  
 KEY: ITEM NUMBER C0-

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C06.020.005	2SV-7-1	09/06/90	CLR	-	N	
C06.020.006	2SV-7-2	09/06/90	CLR	-	N	
C06.020.007	2SV-13-1	09/06/90	CLR	-	N	
C06.020.008	2SV-13-2	09/06/90	CLR	-	N	

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
C07.011.005	2REGN-HX	10/25/90	CLR	-	N	PARTIAL
C07.011.006	2EX-LETDOWN-HX	09/27/90	CLR	-	N	
C07.011.007	2LETDOWN-HX	11/01/90	CLR	-	N	
C07.011.008	2SEALWATER-HX	10/04/90	CLR	-	N	
C07.011.009	2VOL CONT-TANK	10/02/90	CLR	-	N	
C07.011.020	2CONT SPRAY-2A	10/31/90	CLR	-	N	
C07.011.021	2CONT SPRAY-2B	10/11/90	CLR	-	N	
C07.020.001	2MC-2554-3.1	07/26/90	CLR	-	N	
C07.020.002	2MC-2561-1.0	10/15/90	CLC	-	N	PARTIAL
C07.020.003	2MC-2562-3.0	07/03/90	CLR	-	N	
C07.020.004	2MC-2562-3.1	10/15/90	CLR	-	N	
C07.020.006	2MC-2554-2.0	06/14/90	CLR	-	N	PARTIAL
C07.020.007	2MC-2554-3.0	06/14/90	CLR	-	N	PARTIAL
C07.020.008	2MC-2562-1.0	04/25/90	CLR	-	N	
C07.020.010	2MC-2571-1.0	07/03/90	CLR	-	N	

PROJECT: KISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
C07.020.011	2MC-2572-1.0	07/03/90	CLR	-	N	PARTIAL
C07.020.012	2MC-1554-5.0	06/14/90	CLR	-	N	_____
C07.021.002	2MC-2553-2.0	09/24/90	REC	-	N	PARTIAL
C07.021.005	2MC-2554-1.0	10/13/90	CLR	-	N	PARTIAL
C07.021.006	2MC-2554-1.1	10/27/90	REC	-	N	PARTIAL
C07.021.007	2MC-2554-1.2	11/01/90	CLR	-	N	PARTIAL
C07.021.008	2MC-2554-1.3	12/03/90	CLR	-	N	PARTIAL
C07.021.009	2MC-2554-2.0	11/01/90	REC	-	N	PARTIAL
C07.021.010	2MC-2554-3.0	10/05/90	CLR	-	N	PARTIAL
C07.021.011	2MC-2554-3.1	10/05/90	CLR	-	N	PARTIAL
C07.021.014	2MC-2555-2.0	11/01/90	CLR	-	N	_____
C07.021.015	2MC-1556-1.1	10/04/90	CLR	-	N	_____
C07.021.017	2MC-2561-1.0	11/01/90	CLR	-	N	PARTIAL
C07.021.019	2MC-2562-2.0	11/08/90	CLR	-	N	PARTIAL
C07.021.020	2MC-2562-2.1	11/03/90	CLR	-	N	PARTIAL

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
C07.021.021	2MC-2562-3.1	10/26/90	CLR	-	N	PARTIAL
C07.021.023	2MC-2563-1.0	10/31/90	CLR	-	N	PARTIAL
C07.021.026	2MC-1567-2.1	10/02/90	CLR	-	N	
C07.021.027	2MC-2571-1.0	11/29/90	CLR	-	N	PARTIAL
C07.021.030	2MC-2572-2.0	10/02/90	CLR	-	N	PARTIAL
C07.021.032	2MC-2573-3.0	09/18/90	CLR	-	N	
C07.021.041	2MC-2562-3.0	11/03/90	CLR	-	N	PARTIAL
C07.021.042	2MC-1554-5.0	10/05/90	REC	-	N	
C07.030.001	2 CHG PUMP 2A	10/05/90	CLR	-	N	
C07.030.002	2 CHG PUMP 2B	10/05/90	CLR	-	N	
C07.030.003	2 RHR PUMP 2A	09/10/90	CLR	-	N	
C07.030.004	2 RHR PUMP 2B	07/03/90	CLR	-	N	
C07.031.002	2CHG PUMP 2A	10/05/90	CLR	-	N	
C07.031.003	2CHG PUMP 2B	10/05/90	CLR	-	N	
C07.031.006	2SPRAY PUMP 2A	10/31/90	CLR	-	N	

PROGRAM: NISIRIND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER C07

DUKE POWER COMPANY  
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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
C07.031.007	2SPRAY PUMP 2B	10/11/90	CLR	-	N	_____
C07.031.008	2SA INJ PHP 2A	10/24/90	CLR	-	N	_____
C07.031.009	2SA INJ PHP 2B	10/24/90	CLR	-	N	_____

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

DUKE POWER COMPANY  
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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
D01.012.001	2HC-2553-2.0	09/06/90	CLR	-	N	_____
D01.012.002	2HC-2554-2.0	10/03/90	CLR	-	N	PARTIAL
D01.012.003	2HC-2554-3.1	10/03/90	CLR	-	N	_____
D01.012.005	2HC-2554-5.0	10/03/90	CLR	-	N	PARTIAL
D01.012.006	2HC-1567-2.1	09/06/90	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER D02

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEN. REF. =====	COMMENTS =====
D02.011.002	2MC-2573-1.0	11/27/89	CLR	-	N	_____
D02.011.003	2MC-2573-1.1	11/28/89	CLR	-	N	_____
D02.011.011	2MC-2574-1.1	10/31/89	CLR	-	N	_____
D02.011.012	2MC-2574-2.0	10/31/89	CLR	-	N	_____
D02.011.013	2MC-2574-2.1	10/31/89	CLR	-	N	_____
D02.011.014	2MC-2574-3.0	10/31/89	CLR	-	N	_____
D02.011.015	2MC-2574-3.1	10/31/89	CLR	-	N	_____
D02.011.017	2MC-2592-1.0	05/22/90	CLR	-	N	PARTIAL
D02.011.018	2MC-2592-1.1	05/22/90	CLP	-	N	PARTIAL
D02.011.019	2MC-2593-1.2	01/12/90	CLR	-	N	_____
D02.011.020	2MC-2609-1.0	11/09/89	CLR	-	N	PARTIAL
D02.011.021	2MC-2609-1.1	11/09/89	CLR	-	N	PARTIAL
D02.011.022	2MC-2609-2.0	10/31/89	CLR	-	N	PARTIAL
D02.011.023	2MC-2609-2.1	10/31/89	CLR	-	N	PARTIAL
D02.011.028	2MC-1573-4.0	11/27/89	CLR	-	N	_____

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

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
D02.011.029	2HC-1574-1.0	11/27/89	CLR	-	N	_____
D02.011.031	2HC-1574-3.0	10/31/89	CLR	-	N	_____
D02.011.033	2HC-1574-2.0	10/31/89	CLR	-	N	_____
D02.011.034	2HC-1574-1.1	10/31/89	CLR	-	N	_____
D02.012.007	2HC-2573-3.0	09/18/90	CLR	-	N	PARTIAL

PROGRAM: NISIPUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER D03

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
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ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GEO. REF.	COMMENTS
=====	=====	=====	=====	=====	=====	=====
D03.011.001	ZMC-2570-1.0	05/23/90	CLR	-	-	_____
D03.012.001	ZMC-2570-1.0	08/21/90	CLR	-	N	PARTIAL

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

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
E01.001.002	2RCP-2B	11/01/90	CLR	L	N	_____
E01.001.003	2RCP-2C	10/17/90	CLR	L	N	_____
E01.001.004A	2RCP-2D	10/08/90	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 2  
ITEM: ITEM NUMBER E04

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
E04.001.009	2SGA	10/05/90	CLR	L	N	_____

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

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ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.01.742	2RCP-B-SUPPORT	10/03/90	CLR	-	N	_____
F1.02.179	2-MCA-VQ-5002	08/30/90	CLR	-	N	_____
F1.02.509	2-MCA-ND-6103	08/30/90	CLR	-	N	_____
F1.02.510	2-MCA-ND-6104	08/30/90	CLR	-	N	_____
F1.02.511	2-MCA-ND-6105	08/30/90	CLR	-	N	_____
F1.02.512	2-MCA-ND-6106	08/30/90	CLR	-	N	_____
F1.02.513	2-MCA-ND-6107	08/30/90	CLR	-	N	_____
F1.02.514	2-MCA-ND-6108	08/30/90	CLR	-	N	_____
F1.02.515	2-MCA-ND-6109	08/30/90	REC	-	N	_____
F1.02.516	2-MCA-ND-6110	08/30/90	CLR	-	N	_____
F1.02.517	2-MCA-ND-6111	08/30/90	CLR	-	N	_____
F1.02.518	2-MCA-ND-6112	08/30/90	CLR	-	N	_____
F1.02.519	2-MCA-ND-6113	08/30/90	CLR	-	N	_____
F1.02.520	2-MCA-ND-6114	08/30/90	CLR	-	N	_____
F1.02.521	2-MCA-ND-6115	08/30/90	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: CO07133  
PLANT: MCGUIRE UNIT 2  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
OUT-OF-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 2 INSERVICE INSPECTION RESULTS - OUTAGE 6

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
F1.02.522	2-MCA-ND-6116	08/30/90	CLR	-	N	
F1.02.523	2-MCA-ND-6117	08/30/90	CLR	-	N	
F1.02.524	2-MCA-ND-6123	08/30/90	CLR	-	N	
F1.02.525	2-MCA-ND-6125	08/30/90	CLR	-	N	
F1.02.526	2-MCA-ND-6126	08/28/90	CLR	-	N	
F1.03.082	2-MCA-CA-5545	04/16/90	CLR	-	N	
F1.03.083	2-MCA-CA-5546	04/16/90	CLR	-	N	
F1.03.084	2-MCA-CA-5547	04/16/90	CLR	-	N	
F1.03.085	2-MCA-CA-5548	04/16/90	CLR	-	N	
F1.03.086	2-MCA-CA-5549	04/16/90	CLR	-	N	

## 5.0 Class 1 Inspection Results

Examinations were performed during Outage 6 on the Reactor Vessel, Steam Generators 2C and 2D, Pressurizer, Reactor Coolant Pump 2D, Valve Bolting and Supports.

### 5.1 Reactor Vessel

The accessible areas of the Reactor Vessel Core Support Structure received a visual examination. No reportable conditions were found.

### 5.2 Pressurizer

The Pressurizer Safety and Relief Nozzle to Upper Head Welds and the Inside Radius Sections received ultrasonic examinations. No reportable indications were found.

### 5.3 Steam Generators

Steam Generator 2D Channel Head to Tubesheet Weld and Steam Generator 2C Primary Inlet and Outlet Nozzle Inside Radius Sections received an ultrasonic examination. No reportable indications were found.

### 5.4 Pumps

Reactor Coolant Pump 2D Seal Gland and Seal Gland Housing Bolts received a visual examination and the Class 1 Component Support on Reactor Coolant Pump 2B received a visual examination. No reportable conditions were found.

### 5.5 Valves

Valves 2NC-1, 2NC-2 and 2NC-3 Bolting received a visual examination. No reportable conditions were found.

### 5.6 Steam Generator Tubing

(See McGuire 2 Refueling Outage 6 Eddy Current Examination Report)

### 5.7 System Leakage Test

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

### 5.8 Class 1 Repairs and Replacements

Repairs and replacements for work performed from September 16, 1989 to December 24, 1990 are itemized in Section 11 of this report.

## 6.0 Class 2 Inspection Results

Inspections were performed during Outage 6 on Residual Heat Removal Heat Exchanger 2A, piping integrally-welded attachments, Piping Welds of Main Steam (SM) System, Valves and supports.

### 6.1 Residual Heat Removal Heat Exchangers

Residual Heat Removal Heat Exchanger 2A Nozzle Belt to Flange and Head Welds received a radiographic examination. No reportable indications were found.

### 6.2 Piping

Welds greater than one-half inch nominal wall thickness:

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

Piping Integrally-Welded Attachments:

One (1) integrally-welded attachment on Main Steam (SM) System received a magnetic particle examination. No reportable indications were found.

### 6.3 Valves

Valves 2SV-7 and 2SV-13 intake to valve body and valve body to bonnet welds received a magnetic particle examination. No reportable indications were found.

### 6.4 Component Supports

Twenty (20) Class 2 Component Supports received a visual examination as required by ASME Section XI, Article IWF-2000. No reportable conditions were found.

### 6.5 System, Component Functional and Hydrostatic Tests

Class 2 System, Component Functional and Hydrostatic Tests were performed as required by ASME Section XI, Article IWC-5000. No reportable conditions were found.

### 6.6 Class 2 Repairs and Replacements

Repairs and replacements for work performed from September 16, 1989 to December 24, 1990 are itemized in Section 11 of this report.

## 7.0 Augmented Inspection Results

Augmented inspections were performed on the Reactor Coolant Pump Flywheels and on Steam Generator 2A Feedwater Modification.

### 7.1 Reactor Coolant Pump Flywheels

Reactor Coolant Pump 2B and 2C Flywheels received an ultrasonic examination. Reactor Coolant Pump 2D Flywheel received a magnetic particle examination. No reportable indications were found.

### 7.2 Steam Generator Feedwater Modification

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

## 8.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from September 15, 1989 to December 24, 1990 at McGuire 2 were certified in accordance with the requirements of the 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 Offices in Charlotte, North Carolina. The certification records for the Babcock and Wilcox inspectors are on file at the Babcock and Wilcox offices in Lynchburg, Virginia.

Records of periodic calibration of Babcock and Wilcox inspection equipment are on file at the Babcock and Wilcox offices in Lynchburg, Virginia. Records of periodic calibration of Duke Power Company inspection equipment are on file at McGuire Nuclear Station or in the Corporate Offices in Charlotte, North Carolina.

9.0 Problem Investigation Reports

None

#### 10.0 Reference Documents

The following reference documents applies to the inservice inspection performed during Outage 6 at McGuire 2:

None

#### 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 September 16, 1989 to December 24, 1990 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 (09-16-89 thru 12-24-90)

#	UNIT	#	WORK REQ#	#	DESCRIPTION of REPAIR or REPLACEMENT	#
1	2	#	01481A	#	INSPECT VALVE 2NI 125	#
2	2	#	01482A	#	INSPECT VALVE 2NI 94	#
3	2	#	02803A	#	INSPECT VALVE 2NI 181	#
4	2	#	05971A	#	ROD OUT AUX FEEDWATER PUMP MOTOR COOLER	#
5	2	#	095440	#	INSPECT VALVE 2CF 162	#
6	2	#	095631	#	ASSIST EDDY CURRENT TESTING ON S/G	#
7	2	#	095632	#	ASSIST EDDY CURRENT TESTING ON S/G	#
8	2	#	095633	#	ASSIST EDDY CURRENT TESTING ON S/G	#
9	2	#	095634	#	ASSIST EDDY CURRENT TESTING ON S/G	#
10	2	#	131030	#	REPAIR 2SV 7	#
11	2	#	136486	#	REPAIR PACKING LEAK ON 2NI 76	#
12	2	#	136731	#	REPAIR STEM LEAK ON 2NC 14	#
13	2	#	138064	#	REPAIR 2NC 4	#
14	2	#	300336	#	REPAIR 2NM 92	#
15	2	#	301025	#	ASSIST SLUDGE LANCING ACTIVITIES ON S/G	#
16	2	#	301308	#	ASSIST SLUDGE LANCING ACTIVITIES ON S/G	#
17	2	#	301309	#	ASSIST SLUDGE LANCING ACTIVITIES ON S/G	#
18	2	#	88482	#	INSPECT 2CF 120	#
19	2	#	88782	#	REPAIR 2NV 849AC	#
20	2	#	88787	#	INSPECT MISTURE SEPERATOR SECTION OF 2D S/G	#
21	2	#	88996	#	INSPECT 2VG FL 0067 (CONTROL AIR FILTER ELEMENT)	#
22	2	#	132448	#	REPAIR LEAKING CAP ON 2ND 57	#
23	2	#	134339	#	REPAIR 2NI 327	#
24	2	#	134340	#	REPAIR 2NI 444	#
25	2	#	135518	#	REPAIR 2NV 438	#
26	2	#	156490	#	REPAIR 2NI 811	#
27	2	#	198443	#	REPAIR 28W 12	#
28	2	#	139835	#	TIGHTEN SEAL RING ON 2NI 76	#
29	2	#	139837	#	REPAIR 2NM 255	#
30	2	#	501912	#	REBUILD 2SV 28	#
31	2	#	502475	#	INSPECT SECONDARY SIDE OF S/G TUBES IN 28 S/G	#
32	2	#	502757	#	REPLACE BEARING IN PUMP 2KF 0002	#
33	2	#	950465	#	IMPLEMENT NSM # MG-2-0014 ON NV PIPING	#
34	2	#	952457	#	ROTATE BORIC ACID TRANSFER PUMPS	#
35	2	#	952488	#	IMPLEMENT MG-1-1887	#
36	2	#	953998	#	FAB AND INSTALL ORFICE ON ND SYSTEM	#
37	2	#	96364	#	IMPLEMENT MEVN-1182 IN VALVE NC 33	#
38	2	#	952543	#	INSTALL HANGERS ON RN SYSTEM	#
39	2	#	952540	#	MODIFY PIPE SUPPORT ON NV SYSTEM	#
40	2	#	01483A	#	REPAIR VALVE 2NI-93	#
41	2	#	03038A	#	REPAIR VALVE 2NI-82	#
42	2	#	95413	#	REPAIR VALVE 2NC-2	#
43	2	#	134873	#	REPAIR VALVE 2NV-155	#
44	2	#	138489	#	REPAIR VALVE 2NI-101	#
45	2	#	500760	#	REPAIR VALVE 2NI-117	#
46	2	#	953921	#	CAP WE PENETRATION	#
47	2	#	954036	#	ADD INSTRUMENTATION TUBE ON NC SYS	#
48	2	#	953848	#	ADD PIPE AND ULVS TO NV SYS	#

DATE PERIOD: 09-16-89 - 12-24-90 TRANSMITTED TO ISI SUPERVISOR LCK 01-25-91