



**Duke Energy Corporation**

McGuire Nuclear Station  
12700 Hagers Ferry Road  
Huntersville, NC 28078-9340  
(704) 875-4800 OFFICE  
(704) 875-4809 FAX

H. B. Barron  
Vice President

July 11, 2001

U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

ATTENTION: Document Control Desk

Subject: McGuire Nuclear Station, Unit 1  
Docket No. 50-369  
Inservice Inspection Report  
End of Cycle 14 Refueling Outage

Attached is the Inservice Inspection Report for inspections conducted prior to the conclusion of the end of cycle 14 (EOC-14) refueling outage for McGuire Nuclear Station (MNS), Unit 1. This report is submitted pursuant to the filing requirements of Article IWA-6000 of Section XI of the ASME Code. Please note that several of the inspection items documented in Section 11 of the report were performed during a prior outage.

Section 5.2 of the attached report lists the limited examination item numbers for which a relief request will be submitted. Limited examination relief requests 01-003, 01-006 and 01-007 are under development and will be submitted to the NRC in the fourth quarter of 2001 for review and approval in accordance with 10CFR50.55a(a)(3)(i). This Inservice Inspection Report contains no regulatory commitment statements.

Any questions on this matter should be directed to Norman T. Simms, MNS Licensing and Compliance, at (704) 875-4685.

Sincerely,

H. B. Barron  
McGuire Nuclear Station

Attachment

A047

U.S. Nuclear Regulatory Commission

July 11, 2001

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cc w/o att:

Mr. L. A. Reyes  
Regional Administrator, Region II  
U. S. Nuclear Regulatory Commission  
Sam Nunn Atlanta Federal Center, 23 T 85  
61 Forsyth Street, S.W.  
Atlanta, Georgia 30323-3415

Mr. R. E. Martin, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
One White Flint North, Mail Stop 8G9  
Washington, D.C. 20555

S. M. Shaeffer  
Senior NRC Resident Inspector  
McGuire Nuclear Station

U.S. Nuclear Regulatory Commission

January 11, 2001

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bxc w/att: ELL (EC050)

Master File: 1.3.8.1 - Routine Reports

R.L. Gill, Jr. (EC12R)

bxc w/o att:

Kay L. Crane

C.J. Thomas

G.J. Underwood (EC07J)

D.E. Caldwell (MG01MM)

R.D. Klein (MG01MM)

R.K. Rhyne (EC07J)

R. Branch (MG01MM)

N.T. Simms

# **INSERVICE INSPECTION REPORT**

**Duke Power Company  
McGuire Nuclear Station  
Unit 1  
Fourteenth Refueling Outage**



**FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS**

**As required by the Provisions of the ASME Code Rules**

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006  
(Name and Address of Owner)
2. Plant: McGuire Nuclear Station, Highway 73 Cowans Ford, N.C. 28216  
(Name and Address of Plant)
3. Plant Unit: 1      4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: December 1, 1981      6. National Board Number for Unit 44
7. Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	See Section 1.1 in the Attached Report			_____
_____	_____	_____	_____	_____
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Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



# **INSERVICE INSPECTION REPORT**

## **UNIT 1 MCGUIRE 2001 OUTAGE 7/EOC 14**

Location: Hwy. 73, Cowans Ford, North Carolina 28216

NRC Docket No. 50-369

National Board No. 44

Commercial Service Date: December 1, 1981

Owner: Duke Energy Corporation  
526 South Church St.  
Charlotte, N. C. 28201-1006

Revision 0

Prepared By:

Jany Underwood

Date

7/9/01

Reviewed By:

Larry Co Keith

Date

7-9-01

Approved By:

R. Kevin Rhyme

Date

7/9/01

## ***DISTRIBUTION LIST***

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c/o Randy Klein, ANII.

State of North Carolina  
Department of Labor  
c/o J. M. Givens, Jr.

Laura Burba / Nuclear GO  
Regulatory & Industrial Affairs  
Mail Code / EC050

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## 1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's McGuire Nuclear Station Unit 1 during Outage 7/EOC 14. This is the last outage of the Second Ten-Year Interval.

Included in this report are: the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination and corrective action taken when unacceptable conditions were found. In addition, there is a section included for completed NIS-2 documentation of repairs and replacements.

### 1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	CE67102	NC-178379	20766
Pressurizer	Westinghouse	1471	NC-178395	68-123
Steam Generator 1A	BWI	7701-04	NC-302668	157
Steam Generator 1B	BWI	7693-01	NC-302669	146
Steam Generator 1C	BWI	7701-03	NC-302670	155
Steam Generator 1D	BWI	7701-02	NC-302671	154
Centrifugal Charging Pump	Pacific Pumps	1A - 48582 1B - 48583	N/A	19 22
Containment Spray Heat Exchanger	Delta Southern Co.	1A-35005-73-1 1B-35005-73-2	NC-147799 NC-147796	3394 3395

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Excess Letdown Heat Exchanger	Westinghouse	1809	NC-187817	1554
Letdown Heat Exchanger	Joseph Oat & Sons, Inc.	2049-2A	NC-187881	552
Reciprocating Charging Pump	Westinghouse	N721031B-603	N/A	N/A
Reactor Coolant Pump	Westinghouse	1A 1-114E841G01 1B 2-114E841G01 1C 3-114E841G01 1D 4-114E841G01	N/A	N/A
Reciprocating Charging Pump Accumulator	Metal Bellows Company	74730-001	N/A	001
Reciprocating Charging Pump Suction Stabilizer	Richmond Engineering Supply Co.	N-2409.10	N/A	75219
Residual Heat Removal Heat Exchanger	Joseph Oat & Sons, Inc.	1A 2046-2A 1B 2046-2A	NC-234202 NC-234201	635 636
Safety Injection Pump	Pacific Pumps	1A 49355 1B 49356	N/A	80 81
Regenerative Heat Exchanger	Joseph Oat & Sons, Inc.	2047-2A	NC-187897	595 596 597
Seal Water Heat Exchanger	Atlas Industrial Manufacturing Company	1766	NC 169797	1548
Seal Water Injection Filter	AMF Cuno	1A - 13 1B - 14	N/A	3822 3823

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Main Steam Supply to Auxiliary Equipment System	Duke Power Co.	SA	N/A	4
Containment Air Release and Addition System	Duke Power Co.	VQ	N/A	12
Main Steam System	Duke Power Co.	SM	N/A	17
Main Steam Vent to Atmosphere System	Duke Power Co.	SV	N/A	18
Reactor Coolant System	Duke Power Co.	NC	N/A	28
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	29
Refueling Water System	Duke Power Co.	FW	N/A	31
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	32
Residual Heat Removal System	Duke Power Co.	ND	N/A	35
Nuclear Service Water System	Duke Power Co.	RN	N/A	36
Chemical & Volume Control System	Duke Power Co.	NV	N/A	37
Component Cooling System	Duke Power Co.	KC	N/A	38
Main Feedwater System	Duke Power Co.	CF	N/A	39
Containment Spray System	Duke Power Co.	NS	N/A	40

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Containment Ventilation Cooling Water System	Duke Power Co.	RV	N/A	41
Safety Injection System	Duke Power Co.	NI	N/A	42
Containment Purge Ventilation	Duke Power Co.	VP	N/A	6
Safety Injection Accumulator Tank 1A	Delta Southern Co.	41617-72-1	NC-178396	3038
Safety Injection Accumulator Tank 1B	Delta Southern Co.	41617-72-2	NC-178397	3039
Safety Injection Accumulator Tank 1C	Delta Southern Co.	41617-72-3	NC-178398	3040
Safety Injection Accumulator Tank 1D	Delta Southern Co.	41617-72-4	NC-178399	3041
Unit 1	Duke Power Co.	N/A	N/A	44

1.2 Authorized Nuclear Inservice Inspector(s)

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

## 2.0 Summary of Inservice Inspections

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during Outage 7/EOC 14 at McGuire Nuclear Station Unit 1.

### 2.1 Class 1 Inspections

#### Examination Category B-A Pressure Retaining Welds in Reactor Vessel

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B01.010	<b>Shell Welds</b>	
B01.011	Circumferential	3
B01.012	Longitudinal	9
B01.020	<b>Head Welds</b>	
B01.021	Circumferential	1
B01.022	Meridional	6
B01.030	Shell-to-Flange Welds	*2
B01.040	Head-to-Flange Welds	0
B01.050	<b>Repair Welds</b>	
B01.051	Bellline Region	N/A
<b>TOTALS</b>		21

**\*Note:** One item examined this outage was previously examined and this item will not be counted in the report percentages.

**Examination Category B-B**

**Pressure Retaining Welds in Vessels Other than Reactor Vessels**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Pressurizer</b>	
B02.010	<b>Shell-to-Head Welds</b>	
B02.011	Circumferential	0
B02.012	Longitudinal	0
B02.020	<b>Head Welds</b>	
B02.021	Circumferential	N/A
B02.022	Meridional	N/A
	<b>Steam Generators (Primary Side)</b>	
B02.030	<b>Head Welds</b>	
B02.031	Circumferential	N/A
B02.032	Meridional	N/A
B02.040	Tubesheet-to-Head Weld	0
	<b>Heat Exchangers (Primary Side) -- Head</b>	
B02.050	<b>Head Welds</b>	
B02.051	Circumferential	N/A
B02.052	Meridional	N/A
	<b>Heat Exchangers (Primary Side) -- Shell</b>	
B02.060	Tubesheet-to-Head Welds	N/A
B02.070	Longitudinal Welds	N/A
B02.080	Tubesheet-to-Shell Welds	N/A
<b>TOTALS</b>		0

**Examination Category B-D**

**Full Penetration Welds of Nozzles in Vessels  
Inspection Program B**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B03.090	Nozzle-to-Vessel Welds	8
B03.100	Nozzle Inside Radius Section	8
	<b>Pressurizer</b>	
B03.110	Nozzle-to-Vessel Welds	1
B03.120	Nozzle Inside Radius Section	0
	<b>Steam Generators (Primary Side)</b>	
B03.130	Nozzle-to-Vessel Welds	N/A
B03.140	Nozzle Inside Radius Section	0
	<b>Heat Exchangers (Primary Side)</b>	
B03.150	Nozzle-to-Vessel Welds	N/A
B03.160	Nozzle Inside Radius Section	N/A
<b>TOTALS</b>		17

**Examination Category B-E**

**Pressure Retaining Partial Penetration Welds in Vessels**

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category B-F Pressure Retaining Dissimilar Metal Welds**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B05.010	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	2 2/3, *2 2/3
B05.020	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	N/A
B05.030	Nozzle-to-Safe End Socket Welds	N/A
	<b>Pressurizer</b>	
B05.040	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	0
B05.050	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	N/A
B05.060	Nozzle-to-Safe End Socket Welds	N/A
	<b>Steam Generator</b>	
B05.070	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	2
B05.080	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	N/A
B05.090	Nozzle-to-Safe End Socket Welds	N/A
	<b>Heat Exchangers</b>	
B05.100	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	N/A
B05.110	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	N/A
B05.120	Nozzle-to-Safe End Socket Welds	N/A

**\*Note:** The items examined this outage were previously examined but these examinations will not be counted in the report percentages.

**Examination Category B-F**

**(Continued)**

	<i>Piping</i>	
B05.130	Nominal Pipe Size 4" or Larger Dissimilar Metal Butt Welds	4, *1 1/3
B05.140	Nominal Pipe Size Less Than 4" Dissimilar Metal Butt Welds	N/A
B05.150	Dissimilar Metal Socket Welds	N/A
<b>TOTALS</b>		8 2/3, *4

**\*Note:** The items examined this outage were previously examined but these examinations will not be counted in the report percentages.

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b><i>Reactor Vessel</i></b>	
B06.010	Closure Head Nuts	0
B06.020	Closure Studs (in place)	0
B06.030	Closure Studs (when removed)	0
B06.040	Threads in Flange	0
B06.050	Closure Washers, Bushings	0
	<b><i>Pressurizer</i></b>	
B06.060	Bolts and Studs	N/A
B06.070	Flange Surface (when connection disassembled)	N/A
B06.080	Nuts, Bushings, and Washers	N/A
	<b><i>Steam Generators</i></b>	
B06.090	Bolts and Studs	4
B06.100	Flange Surface (when connection disassembled)	*4

Examination Category B-G-1

(Continued)

B06.110	Nuts, Bushings, and Washers	4
<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Heat Exchangers</b>	
B06.120	Bolts and Studs	N/A
B06.130	Flange Surface (when connection disassembled)	N/A
B06.140	Nuts, Bushings, and Washers	N/A
	<b>Piping</b>	
B06.150	Bolts and Studs	N/A
B06.160	Flange Surface (when connection disassembled)	N/A
B06.170	Nuts, Bushings, and Washers	N/A
	<b>Pumps</b>	
B06.180	Bolts and Studs	0
B06.190	Flange Surface <sup>1</sup> (when connection disassembled)	0
B06.200	Nuts, Bushings, and Washers	0
	<b>Valves</b>	
B06.210	Bolts and Studs	N/A
B06.220	Flange Surface <sup>1</sup> (when connection disassembled)	N/A
B06.230	Nuts, Bushings, and Washers	N/A
<b>TOTALS</b>		8

<sup>1</sup> Items to be inspected when disassembled but will not be counted in totals or percentages for the B-G-1 category. These items will be listed in sections 4 and 5 of this report.

**\*Note:** The items examined this outage were previously examined but these examinations will not be counted in the report percentages.

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B07.010	Bolts, Studs, and Nuts	N/A
	<b>Pressurizer</b>	
B07.020	Bolts, Studs, and Nuts	0
	<b>Steam Generators</b>	
B07.030	Bolts, Studs, and Nuts	0
	<b>Heat Exchangers</b>	
B07.040	Bolts, Studs, and Nuts	N/A
	<b>Piping</b>	
B07.050	Bolts, Studs, and Nuts	0
	<b>Pumps</b>	
B07.060	Bolts, Studs, and Nuts	0
	<b>Valves</b>	
B07.070	Bolts, Studs, and Nuts	1
	<b>CRD Housing</b>	
B07.080	Bolts, Studs, and Nuts in CRD Housing when disassembled <sup>2</sup>	0
<b>TOTALS</b>		1

<sup>2</sup> Items to be inspected when disassembled but will not be counted in the totals or percentages for the B-G-2 category. These items will be listed in sections 4 and 5 of this report.

**Examination Category B-H      Integral Attachments for Vessels**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B08.010	Integrally Welded Attachments	0
	<b>Pressurizer</b>	
B08.020	Integrally Welded Attachments	1
	<b>Steam Generators</b>	
B08.030	Integrally Welded Attachments	N/A
	<b>Heat Exchangers</b>	
B08.040	Integrally Welded Attachments	N/A
<b>TOTALS</b>		1

**Examination Category B-J      Pressure Retaining Welds in Piping**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.010	Nominal Pipe Size 4" or Larger	
B09.011	Circumferential Welds	17
B09.012	Longitudinal Welds <sup>3</sup>	N/A
B09.020	Nominal Pipe Size Less than 4"	
B09.021	Circumferential Welds	3
B09.022	Longitudinal Welds <sup>3</sup>	N/A

**Examination Category B-J**

**(Continued)**

B09.030	Branch Pipe Connection Welds	
B09.031	Nominal Pipe Size 4" or Larger	0
B09.032	Less than Nominal Pipe Size 4"	1
B09.040	Socket Welds	9
<b>TOTALS</b>		30

<sup>3</sup> Longitudinal welds in Examination Category B-J that intersect circumferential welds are examined per Code Case N-524.

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Piping</b>	
B10.010	Integrally Welded Attachments	N/A
	<b>Pumps</b>	
B10.020	Integrally Welded Attachments	N/A
	<b>Valves</b>	
B10.030	Integrally Welded Attachments	N/A
<b>TOTALS</b>		N/A

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Pumps</b>	
B12.010	Pump Casing Welds (B-L-1)	N/A
B12.020	Pump Casing (B-L-2) (when disassembled for Maintenance Repair or Volumetric Examination)	0
	<b>Valves</b>	
B12.030	Valves, Nominal Pipe Size Less than 4" Valve Body Welds (B-M-1)	N/A
B12.040	Valves, Nominal Pipe Size 4" or Larger Valve Body Welds (B-M-1)	N/A
B12.050	Valve Body, Exceeding 4" Nominal Pipe Size (B-M-2)	0
<b>TOTALS</b>		0

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B13.010	Vessel Interior (B-N-1)	1

**Examination Category B-N-1, B-N-2, B-N-3 (Continued)**

	<i>Reactor Vessel (PWR)</i>	
B13.050	Interior Attachments Within the Bellline Region (B-N-2)	N/A
B13.060	Interior Attachments Beyond Bellline Region (B-N-2)	2
B13.070	Core Support Structure (B-N-3)	1
<b>TOTALS</b>		4

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

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

**Examination Category B-P All Pressure Retaining Components**

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category B-Q Steam Generator Tubing**

**Note:** Steam Generator Tubing is examined and documented by the Steam Generator Maintenance Group of the Nuclear Services Division as required by the Station Technical Specifications and is not included in this report.

**Examination Category F-A Class 1 Component Supports**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F01.010	Class 1 Piping Supports Reference Section 4.0 of this report	11
<b>TOTALS</b>		11

## 2.2 Class 2 Inspections

### Examination Category C-A Pressure Retaining Welds in Pressure Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C01.010	Shell Circumferential Welds	1
C01.020	Head Circumferential Welds	*3
C01.030	Tubesheet-to-Shell Weld	*2
<b>TOTALS</b>		6

\*Reference Request For Relief 98-002 and 98-003

### Examination Category C-B Pressure Retaining Nozzle Welds in Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C02.010	Nozzles in Vessels $\leq 1/2$ " Nominal Thickness	
C02.011	Nozzle-to-Shell (or Head) Weld	0
C02.020	Nozzles Without Reinforcing Plate in Vessels $>1/2$ " Nominal Thickness	
C02.021	Nozzle-to-Shell (or Head) Weld	1
C02.022	Nozzle Inside Radius Section <sup>4</sup>	0

**Examination Category C-B**

**(Continued)**

C02.030	Nozzles With Reinforcing Plate in Vessels >1/2" Nominal Thickness	
C02.031	Reinforcing Plate Welds to Nozzle and Vessel	4
C02.032	Nozzle-to-Shell (or Head) Welds when Inside of Vessel is Accessible	N/A
C02.033	Nozzle-to-Shell (or Head) Welds when Inside of Vessel is Inaccessible	0
<b>TOTALS</b>		5

<sup>4</sup> (Item # C02.022) Nozzle Inside Radius Section welds are examined as required by Table IWC-2500-1 Category C-B. However, for reporting purposes, the totals do not reflect the number of Nozzle Inside Radius Section welds examined during this outage. Nozzle Inside Radius Section welds are to be examined in conjunction with C02.021. examinations.

**Examination Category C-C**

**Integral Attachments for Vessels, Piping, Pumps, and Valves**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b><i>Pressure Vessels</i></b>	
C03.010	Integral Welded Attachments	1
	<b><i>Piping</i></b>	
C03.020	Integrally Welded Attachments	*1
	<b><i>Pumps</i></b>	
C03.030	Integrally Welded Attachments	0
	<b><i>Valves</i></b>	
C03.040	Integrally Welded Attachments	N/A
<b>TOTALS</b>		2

\*This support is inaccessible due to guard pipe. This is acceptable per Code case N-491.

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

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

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

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.010	Piping Welds $\geq 3/8$ " Nominal Wall Thickness for Piping > Nominal Pipe Size 4"	
C05.011	Circumferential Weld	25
C05.012	Longitudinal Weld <sup>5</sup>	See Code Case N-524

**Examination Category C-F-1 (Continued)**

C05.020	Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ Nominal Pipe Size 2" and ≤ Nominal Pipe Size 4"	
C05.021	Circumferential Weld	8
C05.022	Longitudinal Weld <sup>5</sup>	N/A
C05.030	Socket Welds	9
C05.040	Pipe Branch Connections of Branch Piping ≥ Nominal Pipe Size 2"	
C05.041	Circumferential Weld	0
C05.042	Longitudinal Weld <sup>5</sup>	N/A
<b>TOTALS</b>		42

**Examination Category C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.050	Piping Welds ≥ 3/8" Nominal Wall Thickness for Piping > Nominal Pipe Size 4"	
C05.051	Circumferential Weld	7
C05.052	Longitudinal Weld <sup>5</sup>	See Code Case N-524

**Examination Category C-F-2**

**(Continued)**

C05.060	Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ Nominal Pipe Size 2" and ≤ Nominal Pipe Size 4"	
C05.061	Circumferential Weld	N/A
C05.062	Longitudinal Weld <sup>5</sup>	N/A
C05.070	Socket Welds	N/A
C05.080	Pipe Branch Connections of Branch Piping ≥ Nominal Pipe Size 2"	
C05.081	Circumferential Weld	N/A
C05.082	Longitudinal Weld <sup>5</sup>	N/A
<b>TOTALS</b>		<b>7</b>

<sup>5</sup>Longitudinal welds in Examination Categories C-F-1 and C-F-2 that intersect circumferential welds are examined per Code Case N-524.

**Examination Category C-G**

**Pressure Retaining Welds in Pumps and Valves**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Pumps</b>	
C06.010	Pump Casing Welds	N/A
	<b>Valves</b>	
C06.020	Valve Body Welds	0
<b>TOTALS</b>		<b>0</b>

**Examination Category C-H**

**All Pressure Retaining Components**

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category F-A Class 2 Component Supports**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F01.020	Class 2 Piping Supports Reference Section 4.0 of this report. Supports examined under requirements of Code Case N-491.	40
<b>TOTALS</b>		40

**Examination Category F-A Supports Other than Piping Supports**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F01.040	Supports other than Piping Supports Class 1, 2 & 3 Reference Section 4.0 of this Report. Supports examined under requirements of Code Case N-491.	8
<b>TOTALS</b>		8

**Examination Category Component Supports Snubbers Class 1, 2 & 3**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F01.050	Component Supports Snubbers Class 1, 2 & 3	* N/A
<b>TOTALS</b>		

**\* Examinations to be performed per Request for Relief 97-005**

### 2.3 Augmented Inspection

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
G01.001	RCP Flywheel Exam	0
G03.001	Pipe Rupture Protection	3
<b>TOTALS</b>		3

### 3.0 Second Ten-Year Interval Inspection Status

The completion status of inspections required by the 1989 ASME Code Section XI, no Addenda 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, Table IWC-2500-1 for Class 2 Inspections, and IWF-2500-1 (Code Case N-491 applies) for Class 1, 2, and 3 Component Supports. Augmented inspections are also included.

#### Class 1 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i><sup>6</sup>Deferral Allowed</i>
B-A	Pressure Retaining Welds in Reactor Vessel	28	28	100%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	5	5	100%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	36	36	100%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	REFERENCE SECTION 11.0 OF THIS REPORT			
B-F	Pressure Retaining Dissimilar Metal Welds	38	38	100%	No
B-G-1	Pressure Retaining Bolting Greater than 2" in Diameter	242	242	100%	No
B-G-2	Pressure Retaining Bolting 2" and Less in Diameter	31	31	100%	No

**Class 1 Inspections (Continued)**

<i>Examination Category</i>	<i>Description</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i><sup>6</sup>Deferral Allowed</i>
B-H	Integral Attachments for Vessels	13	13	100%	No
B-J	Pressure Retaining Welds in Piping	212	212	100%	No
B-K-1	Integral Attachments for Piping, Pumps and Valves	N/A	N/A	N/A	No
B-L-1	Pressure Retaining Welds in Pump Casings	N/A	N/A	N/A	Yes
B-L-2	Pump Casings	1	1	100%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	N/A	N/A	N/A	Yes
B-M-2	Valve Body > 4 in. Nominal Pipe Size	7	4	*57.14%	Yes
B-N-1	Interior of Reactor Vessel	3	3	100%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	2	2	100%	Yes
B-N-3	Removable Core Support Structures	1	1	100%	Yes
B-0	Pressure Retaining Welds in Control Rod Housings	3	3	100%	Yes

\*Note no additional valve groups were disassembled during this interval.

**Class 1 Inspections (Continued)**

<i>Examination Category</i>	<i>Description</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i><sup>6</sup>Deferral Allowed</i>
B-P	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	See Note Below			
F-A F01.010	Class 1 Component Supports (Code Case N-491)	67	67	100%	No

**Note:** Steam Generator Tubing is examined and documented by the Steam Generator Maintenance Group of the Nuclear Services Division as required by the Station Technical Specifications and is not included in this report.

<sup>6</sup> Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1

## Class 2 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i><sup>6</sup>Deferral Allowed</i>
C-A	Pressure Retaining Welds in Pressure Vessels	23*	23	100%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	20	16	^80%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	9	#9	100%	No
C-D	Pressure Retaining Bolting Greater Than 2" in Diameter	N/A	N/A	N/A	N/A
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	230	230	100%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	48	48	100%	No
C-G	Pressure Retaining Welds in Pumps and Valves	6	6	100%	No
C-H	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
F-A F01.020	Class 2 Component Supports (Code Case N-491)	189	189	100%	No

\* Reference Request for Relief 98-002 and 98-003

# Three integral attachments are inaccessible due to guard pipe. This is acceptable per Code Case N-491.

^ Four more items to be examined before end of interval (12/01/01).

### Additional Component Support Examinations Class 1, 2 & 3

<i>Examination Category</i>	<i>Description</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i><sup>6</sup>Deferral Allowed</i>
F-A F01.040	Supports other than Piping Supports Class 1, 2 & 3	39	39	100%	No
F01.050	Component Supports, Snubbers Class 1, 2 & 3			*	No

<sup>6</sup>Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB-2500-1 and IWC-2500-1.

\* Examinations to be performed per Request for Relief 97-005

### Augmented Inspections

<i>Description</i>	<i>Percentage Complete</i>
Reactor Coolant Pump Flywheels (Item No. Series G01.)	100% of requirements for Outage 7/EOC 14
Pipe Rupture Protection (Item No. Series G03.)	100% of requirements for Outage 7/EOC 14

#### 4.0 Final Inservice Inspection Plan

The final ISI Plan shown in this section lists all ASME Section XI Class 1 and ASME Section XI Class 2, and Augmented examinations credited for Outage 7 /EOC 14 at McGuire Nuclear Station Unit 1.

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), IWF-2500-1 (Class 1 and Class 2 ), Augmented Requirements
ID Number	=	Unique Identification Number
Iso / Dwg. Numbers	=	Location and/or Detail Drawings
Proc	=	Examination Procedures
Insp Req.	=	Examination Technique - Magnetic Particle, Dye Penetrant, etc.
Mat / Sch.	=	General Description of Material
Diam. / Thick	=	Diameter/Thickness
Cal Blocks	=	Calibration Block Number
Comments	=	General and/or Detail Description



**CATEGORY B-A, Pressure Retaining Welds in  
Reactor Vessel**

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Inservice Inspection Database Management System

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**Shell Welds**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B01.012.006	1RPV 2-442C	MCM 1201.01-146 MCM 1201.01-223	See Com	UT	CS	0.000 8.600	See Com	MIDDLE SHELL LONG SEAM APPROX. 240 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A								
B01.012.007	1RPV 3-442A	MCM 1201.01-146 MCM 1201.01-223	See Com	UT	CS	0.000 8.600	See Com	LOWER SHELL LONG SEAM APPROX. 60 DEG., PROCEDURE 54-ISI-800, CA BLOCK FTI-RPV-95001
Class A								
B01.012.008	1RPV 3-442B	MCM 1201.01-146 MCM 1201.01-223	See Com	UT	CS	0.000 8.600	See Com	LOWER SHELL LONG SEAM APPROX. 180 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A								
B01.012.009	1RPV 3-442C	MCM 1201.01-146 MCM 1201.01-223	See Com	UT	CS	0.000 8.600	See Com	LOWER SHELL LONG SEAM APPROX. 300 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A								

Total B01.012 Items: 9

**CATEGORY B-A, Pressure Retaining Welds in  
Reactor Vessel**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
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**Head Welds**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential ****</b>									
B01.021.002	1RPV 4-469	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD
	Circumferential	MCM 1201.01-223				5.300			PC. 469-01 TO PC. 469-02 CAL.BLOCK 50377
	Class A								REFERENCE B&W 1991 RPV.REPORT SECT.3-18A, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
<b>Total B01.021 Items: 1</b>									
<b>**** Meridional ****</b>									
B01.022.006	1RPV 1-202A	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD MERIDIONAL WELD
	Longitudinal	MCM 1201.01-223				5.300			APPROX. 30 DEG., PROCEDURE 54-ISI-800, CA BLOCK FTI-RPV-95001
	Class A								
B01.022.007	1RPV 1-202B	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD MERIDIONAL WELD
	Longitudinal	MCM 1201.01-223				5.300			APPROX. 90 DEG., PROCEDURE 54-ISI-800, CA BLOCK FTI-RPV-95001
	Class A								
B01.022.008	1RPV 1-202C	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD MERIDIONAL WELD
	Longitudinal	MCM 1201.01-223				5.300			APPROX. 150 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Class A								
B01.022.009	1RPV 1-202D	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD MERIDIONAL WELD
	Longitudinal	MCM 1201.01-223				5.300			APPROX. 210 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Class A								
B01.022.010	1RPV 1-202E	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD MERIDIONAL WELD
	Longitudinal	MCM 1201.01-223				5.300			APPROX. 270 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Class A								
B01.022.011	1RPV 1-202F	MCM 1201.01-146	See Com	UT	CS	0.000	See Com		BOTTOM HEAD MERIDIONAL WELD
	Longitudinal	MCM 1201.01-223				5.300			APPROX. 330 DEG., PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Class A								
<b>Total B01.022 Items: 6</b>									

**CATEGORY B-A, Pressure Retaining Welds in  
Reactor Vessel**

**Shell-to-Flange Weld**

DUKE ENERGY CORPORATION  
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**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B01.030.001	1RPV 7-442 Circumferential Class A	MCM 1201.01-146 MCM 1201.01-223	NDE-650	UT	CS	0.000 10.700	50304	NOZZLE BELT TO FLANGE PC. 454-01 TO PC. 442-06 UT FROM FLANGE SURFACE 57.41% EXAMINED ADDED TO EOC- 14/OUTAGE 7 PER PLAN ADDENDA 1MNS-107(REF. PIP M-00-00463),
B01.030.002	1RPV 7-442 Circumferential Class A	MCM 1201.01-146 MCM 1201.01-223	See Com	UT	CS	0.000 10.700	See Com	NOZZLE BELT TO FLANGE PC. 454-01 TO 442-06 UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
<b>Total B01.030 Items:</b>		<b>2</b>						
<b>Total B01 Items:</b>		<b>21</b>						

**CATEGORY B-D, Full Penetration Welds of  
Nozzels in Vessels**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Reactor Vessel**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>									
B03.090.001	1RPV5-445A	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	See Com		INLET NOZZLE A TO SHELL 67 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A									
B03.090.001A	1RPV5-445A	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	50304		INLET NOZZLE A TO SHELL 67 DEG. UT FROM NOZZLE ID, PROCEDURE 54-ISI-106
Class A									
B03.090.002	1RPV5-445B	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	See Com		INLET NOZZLE B TO SHELL 113 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A									
B03.090.002A	1RPV5-445B	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	50304		INLET NOZZLE B TO SHELL 113 DEG. UT FROM NOZZLE ID, PROCEDURE 54-ISI-106
Class A									
B03.090.003	1RPV5-445C	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	See Com		INLET NOZZLE C TO SHELL 247 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A									
B03.090.003A	1RPV5-445C	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	50304		INLET NOZZLE C TO SHELL 247 DEG. UT FROM NOZZLE ID, PROCEDURE 54-ISI-106
Class A									
B03.090.004	1RPV5-445D	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	See Com		INLET NOZZLE D TO SHELL 293 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
Class A									
B03.090.004A	1RPV5-445D	MCM 1201.01-148 MCM 1201.01-223	See Com	UT	CS	61.500 10.900	50304		INLET NOZZLE D TO SHELL 293 DEG. UT FROM NOZZLE ID, PROCEDURE 54-ISI-106
Class A									

**CATEGORY B-D, Full Penetration Welds of  
Nozzels in Vessels**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Reactor Vessel**

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Inservice Inspection Plan for Interval 2 Outage 7

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
B03.090.005	1RPV5-445E	MCM 1201.01-148	See Com	UT	CS	52.900	See Com		OUTLET NOZZLE E TO SHELL 22 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.005A	1RPV5-445E	MCM 1201.01-148	See Com	UT	CS	52.900	50304		OUTLET NOZZLE E TO SHELL 22 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF 92-003, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.006	1RPV5-445F	MCM 1201.01-148	See Com	UT	CS	52.900	See Com		OUTLET NOZZLE F TO SHELL 158 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.006A	1RPV5-445F	MCM 1201.01-148	See Com	UT	CS	52.900	50304		OUTLET NOZZLE F TO SHELL 158 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF 92-003, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.007	1RPV5-445G	MCM 1201.01-148	See Com	UT	CS	52.900	See Com		OUTLET NOZZLE G TO SHELL 202 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.007A	1RPV5-445G	MCM 1201.01-148	See Com	UT	CS	52.900	50304		OUTLET NOZZLE G TO SHELL 202 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF 92-003, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.008	1RPV5-445H	MCM 1201.01-148	See Com	UT	CS	52.900	See Com		OUTLET NOZZLE H TO SHELL 338 DEG. UT FROM VESSEL ID, PROCEDURE 54-ISI-800, CAL. BLOCK FTI-RPV-95001
	Circumferential	MCM 1201.01-223				10.900			
	Class A								
B03.090.008A	1RPV5-445H	MCM 1201.01-148	See Com	UT	CS	52.900	50304		OUTLET NOZZLE H TO SHELL 338 DEG. UT FROM NOZZLE ID SEE REQUEST FOR RELIEF 92-003, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-223				10.900			
	Class A								

Total B03.090 Items: 16



EOC 14(

**CATEGORY B-D, Full Penetration Welds of  
Nozzels in Vessels**

**Reactor Vessel**

DUKE ENERGY CORPORATION  
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**Inservice Inspection Plan for Interval 2 Outage 7**

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FTI-RPV-95001

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Total B03.100 Items: 8

**CATEGORY B-D, Full Penetration Welds of  
Nozzels in Vessels**

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**Pressurizer**

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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>								
B03.110.004	1PZR-14	MCM 1201.01-170	NDE-620	UT	CS	15.000	50338	PRESSURIZER SAFETY NOZZLE TO UPPER HEAD (W-X AXIS) DEPENDING UPON THE EXAMINER'S QUALIFICATIONS, PROCEDURE PDI-UT-6 MAY BE USED IN LIEU OF PROCEDURE NDE-620.
	Circumferential	MCM 1201.01-171	See Com			1.900	50236A	
	Class A							
<b>Total B03.110 Items:</b>		<b>1</b>						
<b>Total B03 Items:</b>		<b>25</b>						

**CATEGORY B-E, Pressure Retaining Partial  
Penetration Welds in Vessels**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
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**Partial Penetration Welds**

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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Control Rod Drive Nozzles ****</b>								
B04.012.001	1RPV-CRDM	MCM 1201.01-204 MCM 1201.01-242	QAL-15	VT-2	Inconel	4.000 0.642	----	78 WELDS CRDM TUBE TO RPV CLOSURE HEAD INSPECT DURING CL.1 HYDRO
Class A								
<b>Total B04.012 Items:</b>		<b>1</b>						
<b>**** Instrumentation Nozzles ****</b>								
B04.013.001	1RPV-INCORE	MCM 1201.01-165	QAL-15	VT-2	Inconel	1.500 0.450	----	58 WELDS INCORE INSTRUMENT TUBES TO RPV BOTTOM HEAD INSPECT DURING CL.1 HYDRO
Class A								
<b>Total B04.013 Items:</b>		<b>1</b>						

**CATEGORY B-E, Pressure Retaining Partial  
Penetration Welds in Vessels**

**Pressurizer**

DUKE ENERGY CORPORATION  
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**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	-PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Heater Penetration Welds ****</b>									
B04.020.001	1PZR-HEATER	MCM 1201.01-048	QAL-15	VT-2	SS	1.750	-----		78 HEATER PENETRATIONS IN LOWER HEAD INSPECT DURING CL.1 HYDRO
						0.000			

Class A

Total B04.020 Items: 1

Total B04 Items: 3



**CATEGORY B-F, Pressure Retaining****Dissimilar Metal Welds****Reactor Vessel**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B05.010.004A	1RPV 3-445C-SE	MCM 1201.01-148	See Com	UT	SS-CS	27.500	40397	RV INLET NOZZLE TO SAFE END TO BE DONE WITH B05.130.012A UT FROM SAFE END SIDE PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.281		
	Class A							
	Dissimilar							
B05.010.005	1RPV 3-445F-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000	40397	RV O/NZ TO SE PC 445-6/-7,158 D UT FM NOZ SIDE DO W/B5.130.005 REF RFR 92-003,B&W 1991 RPV REPCAL. BK. 50214 USED, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.312		
	Class A							
	Dissimilar							
B05.010.005A	1RPV 3-445F-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000	40397	RV O/NZ TO SE UT FROM SE SIDE DO W/B05.130.005A REF RFR 92-003,B&W1991 RPV REP CAL BLK. USED 50214, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.312		
	Class A							
	Dissimilar							
B05.010.006	1RPV 3-445E-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000	40397	RV O/NZ TO SE PC 445-6/-7,22D UT FM NOZ SIDE DO W/B5.130.001REF RFR 92-003,B&W 1991 RPV REP CAL.BK. 50214 USED, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.312		
	Class A							
	Dissimilar							
B05.010.006A	1RPV 3-445E-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000	40397	RV OUT/NZ TO SE UT FM SE SIDE DO W/B05.130.001A REF. RFR 92-003, B&W 199 RPV REPORT CAL. BK.50214 USED, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.312		
	Class A							
	Dissimilar							
B05.010.007	1RPV 3-445H-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000	40397	RV O/NZ TO SE PC 445-6/-7,338D UT FM NOZ SIDE DO W/B5.130.013 REF RFR 92-003,B&W 1991 RPV REP CAL. BK. 50214 USED, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.312		
	Class A							
	Dissimilar							
B05.010.007A	1RPV 3-445H-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000	40397	RV O/NZ TO SE UT FM SE SIDE DO W/B05.130.013A, REF RFR 92-003, B&W 199 RPV REPORT CAL. BK.50214 USED, PROCEDURE 54-ISI-106
	Circumferential	MCM 1201.01-206				2.312		
	Class A							
	Dissimilar							

**CATEGORY B-F, Pressure Retaining  
Dissimilar Metal Welds**

**Reactor Vessel**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
B05.010.008	1RPV 3-445G-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000		40397	RV O/NZ TO SE
	Circumferential	MCM 1201.01-206				2.312			PC 445-6/-7,202 D UT FM NOZ SIDE. DO
	Class A								W/B5.130.009 REF RFR
	Dissimilar								92-003,B&W 1991 RPV REP CAL. BK. 50214
									USED, PROCEDURE 54-ISI-106
B05.010.008A	1RPV 3-445G-SE	MCM 1201.01-148	See Com	UT	SS-CS	29.000		40397	RV OUT/NZ TO SE
	Circumferential	MCM 1201.01-206				2.312			UT FM SE SIDE
	Class A								DO W/B05.130.009A REF RFR 92-003, B&W 1991
	Dissimilar								RPV REPORT CAL. BK. 50214 USED,
									PROCEDURE 54-ISI-106
<b>Total B05.010 Items:</b>		<b>16</b>							

**CATEGORY B-F, Pressure Retaining****Dissimilar Metal Welds****Steam Generator**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** NPS 4 or Larger; Nozzle-to-Safe End Butt Welds ****</b>									
B05.070.005	1SGC-INLET-W5SE	MC 1676-4	NDE-930	UT	SS-CS	31.000	5149697		SG1C INLET NOZZLE SAFE END
	Circumferential	MCM 1201.01-0708				2.500	5158172		TO BE DONE WITH B09.011.074
Class A	Term end	MCM 1201.01-0769			SG1C INLET to				REFERENCE 1MNS-078
	Dissimilar				SAFE END				
B05.070.005A	1SGC-INLET-W5SE	MC 1676-4	NDE-35	PT	SS-CS	31.000			SG1C INLT NOZZLE SAFE END
	Circumferential	MCM 1201.01-0708				2.500			TO BE DONE WITH B09.011.074A
Class A	Term end	MCM 1201.01-0769			SG1C INLT to				REFERENCE 1MNS-078
	Dissimilar				SAFE END				
B05.070.006	1SGC-OUTLET-W6SE	MC 1676-4	NDE-930	UT	SS-CS	31.000	5149697		SG1C OUTLET NOZZLE SAFE END
	Circumferential	MCM 1201.01-0708				2.500	5158172		TO BE DONE WITH B09.011.075
Class A	Term end	MCM 1201.01-0769			SG1C OUTLET to				REFERENCE 1MNS-078
	Dissimilar				SAFE END				
B05.070.006A	1SGC-OUTLET-W6SE	MC 1676-4	NDE-35	PT	SS-CS	31.000			SG1C OUTLET NOZZLE SAFE END
	Circumferential	MCM 1201.01-0708				2.500			TO BE DONE WITH B09.011.075A
Class A		MCM 1201.01-0769			SG1C OUTLET to				REFERENCE 1MNS-078
	Dissimilar				SAFE END				

**Total B05.070 Items: 4**



**CATEGORY B-F, Pressure Retaining****Dissimilar Metal Welds****Piping**

DUKE ENERGY CORPORATION  
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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
B05.130.009	1NC1F-3-1	MCM 1201.01-119/7	See Com	UT	SS-CS	29.000	40397	UT FROM SAFE END SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.008 REF. RFR 92-003, CAL. BK. 50214 USED, REF. B&W 1991 RPV REPORT , PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.009A	1NC1F-3-1	MCM 1201.01-119/7	See Com	UT	SS-CS	29.000	50214	UT FROM PIPE SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.008A, PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.012	1NC1F-3-8	MCM 1201.01-119/9	See Com	UT	SS-CS	27.500	40397	UT FROM SAFE END SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.004, PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.012A	1NC1F-3-8	MCM 1201.01-119/9	See Com	UT	SS-CS	27.500	50214	UT FROM PIPE SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.004A, PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.013	1NC1F-4-1	MCM 1201.01-119/10	See Com	UT	SS-CS	29.000	40397	UT FROM SAFE END SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.007 REF. RFR 92-003, CAL. BK. 50214 USED REF. B&W 1991 RPV REPORT, PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.013A	1NC1F-4-1	MCM 1201.01-119/10	See Com	UT	SS-CS	29.000	50214	UT FROM PIPE SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.007A , PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.016	1NC1F-4-8	MCM 1201.01-119/12	See Com	UT	SS-CS	27.500	40397	UT FROM SAFE END SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.003, PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							
B05.130.016A	1NC1F-4-8	MCM 1201.01-119/12	See Com	UT	SS-CS	27.500	50214	UT FROM PIPE SIDE
	Circumferential	MC 1676-4				2.300		TO BE DONE WITH B05.010.003A , PROCEDURE 54-ISI-106
	Class A							
	Dissimilar							

<b>Total B05.130 Items:</b>	<b>16</b>
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<b>Total B05 Items:</b>	<b>36</b>
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**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" In Diameter**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Steam Generators**

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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
<b>**** Bolts and Studs ****</b>									
B06.090.003	1SGB-MW-X1-Y1	MCM 1201.01-0747 MCM 1201.01-0684	NDE-947	UT	CS		2.625 26.625	7C015	SG1B PRIMARY INLET MANWAY BOLTING 20 BOLTS X1-Y1 QUADRANT . REFERENCE 1MNS-079 S/G 1B MANWAY BOLTING WAS LISTED AS B07.030.003
	Class A								
B06.090.004	1SGB-MW-X1-Y2	MCM 1201.01-0747 MCM 1201.01-0684	NDE-947	UT	CS		2.625 26.625	7C015	SG1B PRIMARY OUTLET MANWAY BOLTING 2 BOLTS X1-Y2 QUADRANT . REFERENCE 1MNS-079 S/G 1B MANWAY BOLTING WAS LISTED AS B07.030.004
	Class A								
B06.090.005	1SGC-MW-X2-Y1	MCM 1201.01-0747 MCM 1201.01-0684	NDE-947	UT	CS		2.500 26.625	7C015	SG1C PRIMARY INLET MANWAY BOLTING 20 BOLTS X2-Y1 QUADRANT . REFERENCE 1MNS-079 S/G 1C MANWAY BOLTING WAS LISTED AS B07.030.005
	Class A								
B06.090.006	1SGC-MW-X2-Y2	MCM 1201.01-0747 MCM 1201.01-0684	NDE-947	UT	CS		2.500 26.625	7C015	SG1C PRIMARY OUTLET MANWAY BOLTING 2 BOLTS X2-Y2 QUADRANT . REFERENCE 1MNS-079 S/G 1C MANWAY BOLTING WAS LISTED AS B07.030.006
	Class A								
<b>Total B06.090 Items: 4</b>									

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" In Diameter**

**Steam Generators**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

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**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Flange Surface, when connection disassembled ****</b>									
B06.100.003	1SGB-MW-X1-Y1	MCM 1201.01-0791	QAL-13	VT-1	CS	0.000	0.000		SG1B PRIMARY INLET MANWAY FLANGE SURFACE X1-Y1 QUADRANT
Class A									
B06.100.004	1SGB-MW-X1-Y2	MCM 1201.01-0791	QAL-13	VT-1	CS	0.000	0.000		SG1B PRIMARY OUTLET MANWAY FLANGE SURFACE X1-Y2 QUADRANT
Class A									
B06.100.005	1SGC-MW-X2-Y1	MCM 1201.01-0791	QAL-13	VT-1	CS	0.000	0.000		SG1C PRIMARY INLET MANWAY FLANGE SURFACE X2-Y1 QUADRANT
Class A									
B06.100.006	1SGC-MW-X2-Y2	MCM 1201.01-0791	QAL-13	VT-1	CS	0.000	0.000		SG1C PRIMARY OUTLET MANWAY FLANGE SURFACE X2-Y2 QUADRANT
Class A									
<b>Total B06.100 Items: 4</b>									

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" In Diameter**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Steam Generators**

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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
<b>**** Nuts, Bushings, and Washers ****</b>									
B06.110.003	1SGB-MW-X1-Y1	MCM 1201.01-0747 MCM 1201.01-0684	QAL-13	VT-1	CS		2.500 0.000		SG1B PRIMARY INLET MANWAY NUTS (20) X1-Y1 QUADRANT
Class A									
B06.110.004	1SGB-MW-X1-Y2	MCM 1201.01-0747 MCM 1201.01-0684	QAL-13	VT-1	CS		2.500 0.000		SG1B PRIMARY OUTLET MANWAY NUTS (20) X1-Y2 QUADRANT
Class A									
B06.110.005	1SGC-MW-X2-Y1	MCM 1201.01-0747 MCM 1201.01-0684	QAL-13	VT-1	CS		0.000 0.000		SG1C PRIMARY INLET MANWAY NUTS (20) X2-Y1 QUADRANT
Class A									
B06.110.006	1SGC-MW-X2-Y2	MCM 1201.01-0747 MCM 1201.01-0684	QAL-13	VT-1	CS		2.500 0.000		SG1C PRIMARY OUTLET MANWAY NUTS (20) X2-Y2 QUADRANT
Class A									
<b>Total B06.110 Items:</b>		<b>4</b>							
<b>Total B06 Items:</b>		<b>12</b>							

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2" And Less In Diameter**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

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**Inservice Inspection Plan for Interval 2 Outage 7**

**Valves**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Bolts, Studs, and Nuts \*\*\*\***

B07.070.065A	1NI-160	MCM 1205.36-0028	QAL-13	VT-1	SS	1.250		6" VALVE, MCFI-1NI35
		MC 1562-3.0				0.000		

Class A

**Total B07.070 Items: 1**

**Total B07 Items: 1**

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**CATEGORY B-H, Integral Attachments for****Vessels****Pressurizer**

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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Integrally Welded Attachments \*\*\*\***

B08.020.001A	1PZR-SKIRT	MCM-1201.01-170 EDSK-379441B	NDE-952	UT	CS	87.000 1.500	50237B	PZR SUPPORT SKIRT TO LOWER HEAD AN ULTRASONIC EXAMINATION SHALL BE PERFORMED TO OBTAIN ADDITIONAL COVERAGE ON ID. REQUEST FOR ALTERNATIVE 00-001 SUBMITTED FOR ITEM # B08.020.001, ITEM # CHANGED TO B08.020.001/ TO SHOW SEPERATE EXAMS FOR THE ID AND OD OF THE PRESSURIZER SUPPORT SKIRT.
Class A								

Total B08.020 Items:	1
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Total B08 Items:	1
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**CATEGORY B-J, Pressure Retaining Welds In  
 Piping**

**NPS 4 or Larger**

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**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>										
B09.011.007	1NC1F-1-7	NC	MCM-1201.01-119/3	NDE-610	UT	SS	27.500	50214		REACTOR COOLANT LOOP-1
	Circumferential		MC-1676-4				2.200			RCP-1A TO PC.P1
	Class A					RCP-1A to PC.P1				
B09.011.007A	1NC1F-1-7	NC	MCM-1201.01-119/3	NDE-35	PT	SS	27.500	----		REACTOR COOLANT LOOP-1
	Circumferential		MC-1676-4				2.200			RCP-1A TO PC.P1
	Class A					RCP-1A to PC.P1				
B09.011.008	1NC-3087-W1	NC	MCM-1201.01-119/3	NDE-610	UT	SS	27.500	50214		REACTOR COOLANT LOOP-1
	Circumferential		MC-1676-4				2.200			PC.P1 TO PC.A, CALIBRATION BLOCK 50386 MAYBE SUBSTITUTED IN PLACE OF 50214
	Class A					PC.P1 to PC.A				
B09.011.008A	1NC-3087-W1	NC	MCM-1201.01-119/3	NDE-35	PT	SS	27.500	----		REACTOR COOLANT LOOP-1
	Circumferential		MC-1676-4				2.200			PC.P1 TO PC.A
	Class A					PC.P1 to PC.A				
B09.011.034	1NC1F-540	NC	MCFI-1NC-5	NDE-600	UT	SS	6.000	50211		STRESS WELD
	Circumferential		MC-1553-2.0			160	0.719			SELECTION CRITERIA 4.2.1
	Class A					Pipe to Elbow				
B09.011.034A	1NC1F-540	NC	MCFI-1NC-5	NDE-35	PT	SS	6.000			STRESS WELD
	Circumferential		MC-1553-2.0			160	0.719			SELECTION CRITERIA 4.2.1
	Class A					Pipe to Elbow				
B09.011.035	1NCP-226-1	NC	MCFI-1NC-5	NDE-600	UT	SS	6.000	50211		STRESS WELD
	Circumferential		MC-1553-2.0			160	0.719			SELECTION CRITERIA 4.2.1
	Class A					Elbow to Pipe				
B09.011.035A	1NCP-226-1	NC	MCFI-1NC-5	NDE-35	PT	SS	6.000			STRESS WELD
	Circumferential		MC-1553-2.0			160	0.719			SELECTION CRITERIA 4.2.1
	Class A					Elbow to Pipe				

**CATEGORY B-J, Pressure Retaining Welds In Piping**

**NPS 4 or Larger**

DUKE ENERGY CORPORATION  
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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
B09.011.061	1NC1F-107	NC MCFI-1NC-47	NDE-600	UT	SS	10.000	50209		STRESS WELD
	Circumferential	MC-1553-1.0			140	1.000			SELECTION CRITERIA 4.2.1
Class A	Stress weld			Elbow to Nozzle					
B09.011.061A	1NC1F-107	NC MCFI-1NC-47	NDE-35	PT	SS	10.000			STRESS WELD
	Circumferential	MC-1553-1.0			140	1.000			SELECTION CRITERIA 4.2.1
Class A	Stress weld			Elbow to Nozzle					
B09.011.062	1NC1F-218	NC MCFI-1NC-47	NDE-600	UT	SS	10.000	50209		
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Nozzle to Pipe					
B09.011.062A	1NC1F-218	NC MCFI-1NC-47	NDE-35	PT	SS	10.000			
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Nozzle to Pipe					
B09.011.063	1NC1F-166	NC MCFI-1NC-47	NDE-600	UT	SS	10.000	50209		
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Nozzle to Pipe					
B09.011.063A	1NC1F-166	NC MCFI-1NC-47	NDE-35	PT	SS	10.000			
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Nozzle to Pipe					
B09.011.064	1NC-128-9	NC MCFI-1NC-47	NDE-600	UT	SS	10.000	50209		
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Pipe to Pipe					
B09.011.064A	1NC-128-9	NC MCFI-1NC-47	NDE-35	PT	SS	10.000			
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Pipe to Pipe					
B09.011.065	1NC-102-9	NC MCFI-1NC-47	NDE-600	UT	SS	10.000	50209		
	Circumferential	MC-1553-1.0			140	1.000			
Class A				Pipe to Pipe					



DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**CATEGORY B-J, Pressure Retaining Welds In Piping**

**NPS 4 or Larger**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
B09.011.208	1NI-462-1	NI	MCFI-1NI-62	NDE-600	UT	SS	10.000	140	50209	
	Circumferential		MC-1562-2.0				1.000			Elbow to Tee
	Class A									
B09.011.208A	1NI-462-1	NI	MCFI-1NI-62	NDE-35	PT	SS	10.000	140		
	Circumferential		MC-1562-2.0				1.000			Elbow to Tee
	Class A									
B09.011.216	1NI1F-305	NI	MCFI-1NI-79	NDE-600	UT	SS	10.000	140	50209	
	Circumferential		MC-1562-2.0				1.000			Pipe to Elbow
	Class A									
B09.011.216A	1NI1F-305	NI	MCFI-1NI-79	NDE-35	PT	SS	10.000	140		
	Circumferential		MC-1562-2.0				1.000			Pipe to Elbow
	Class A									
B09.011.219	1NI1F-645	NI	MCFI-1NI-80	NDE-600	UT	SS	10.000	140	50209	
	Circumferential		MC-1562-2.0				1.000			Pipe to Valve
	Class A									
B09.011.219A	1NI1F-645	NI	MCFI-1NI-80	NDE-35	PT	SS	10.000	140		
	Circumferential		MC-1562-2.0				1.000			Pipe to Valve
	Class A									
B09.011.228	1NI1F-280	NI	MCFI-1NI-86	NDE-600	UT	SS	10.000	140	50209	
	Circumferential		MC-1562-2.1				1.000			Valve to Pipe
	Class A									
B09.011.228A	1NI1F-280	NI	MCFI-1NI-86	NDE-35	PT	SS	10.000	140		
	Circumferential		MC-1562-2.1				1.000			Valve to Pipe
	Class A									

**Total B09.011 Items: 34**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**CATEGORY B-J, Pressure Retaining Welds In Piping**

McGuire 1

Less Than NPS 4

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>									
B09.021.013	1NC1F-1376	NC	MCFI-1NC-34	NDE-35	PT	SS	3.000		STRESS WELD
	Circumferential		MC-1553-1.0			160	0.438		SELECTION CRITERIA 4.2.1
Class A	Stress weld				Pipe to Pipe				
B09.021.014	1NCP-348-3	NC	MCFI-1NC-34	NDE-35	PT	SS	3.000		STRESS WELD
	Circumferential		MC-1553-1.0			160	0.438		SELECTION CRITERIA 4.2.1
Class A	Stress weld				Pipe to Pipe				
B09.021.016	1NC1F2-13A	NC	MC-1676-4.1	NDE-35	PT	SS	3.000		CROSSOVER 1B CAP (2-13)
	Circumferential		MCM 1201.01-511			160	0.438		
Class A					Pipe to RTD BYPASS RETURN CA				
<b>Total B09.021 Items:</b>		<b>3</b>							

**CATEGORY B-J, Pressure Retaining Welds In Piping**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**Branch Pipe Connection Welds**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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\*\*\*\* Less Than NPS 4 \*\*\*\*

B09.032.101	1NI-183-3	NI MCFI 1NI-84	NDE-35	PT	SS	2.000		
	Branch	MC 1562-2.1				0.344		
	Class A				Pipe to WELD BOSS			

Total B09.032 Items: 1

**CATEGORY B-J, Pressure Retaining Welds In Piping**

**Socket Welds**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.020	1NC1F2-18B Socket	NC MC-1676-4.1 MCM 1201.01-511	NDE-35	PT	SS	2.000 0.312		COLD LEG 1B THERMOWELL WELD (2-18) RTD MODIFICATION
Class A								THERMOWELD SEAL WELD to THERMOWELD SEAL WELD
B09.040.021	1NC1F2-19B Socket	NC MC-1676-4.1 MCM 1201.01-511	NDE-35	PT	SS	2.000 0.312		COLD LEG 1B THERMOWELL WELD (2-19) RTD MODIFICATION
Class A								THERMOWELD SEAL WELD to THERMOWELD SEAL WELD
B09.040.103	1NI1F-2000 Socket	NI MCFI-1NI-35 MC-1562-3.0	NDE-35	PT	SS	2.000 160 0.344	----	
Class A								Pipe to Tee
B09.040.104	1NI1F-1996 Socket	NI MCFI-1NI-35 MC-1562.3.0	NDE-35	PT	SS	2.000 160 0.344	----	
Class A								Pipe to Elbow
B09.040.105	1NI1F-2020 Socket	NI MCFI-1NI-35 MC-1562-3.0	NDE-35	PT	SS	2.000 160 0.344	-----	
Class A								Tee to Reducing Insert
B09.040.227	1NV25-RCP1A-1 Socket	NV MCFI-1NV-25 MC-1554-1.0	NDE-35	PT	SS	1.500 160 0.281		TERMINAL END REACTOR COOLANT PUMP
Class A	Term end							Pipe to RCP-1A
B09.040.228	1NV125-RCP1C-1 Socket	NV MCFI-1NV-125 MC-1554-1.2	NDE-35	PT	SS	1.500 160 0.281		TERMINAL END REACTOR COOLANT PUMP
Class A	Term end							Pipe to RCP-1C
B09.040.229	1NV137-RCP1B-1 Socket	NV MCFI-1NV-137 MC-1554-1.0	NDE-35	PT	SS	1.500 160 0.281		TERMINAL END REACTOR COOLANT PUMP
Class A	Term end							Pipe to RCP-1B

**CATEGORY B-J, Pressure Retaining Welds In Piping**

**Socket Welds**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.230	1NV143-RCP1D-1	NV MCFI-1NV-143	NDE-35	PT	SS	1.500		TERMINAL END
	Socket	MC-1554-1.1			160	0.281		REACTOR COOLANT PUMP
Class A	Term end			Pipe to RCP-1D				

Total B09.040 Items: 9

Total B09 Items: 47

**CATEGORY B-N-1, Interior of Reactor Vessel**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**Reactor Vessel**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Vessel Interior ****</b>								
B13.010.001	1RPV-INTERIOR	MCM 1201.01-146	QAL-14	VT-3	SS	0.000	----	AREA ABOVE AND BELOW CORE MADE
		MCM 1201.01-223	See Com			0.000		ACCESSIBLE DURING REF.
	Class A							REF PIP:1M94-1467, RFR94-10
								SEE DESIGN EVAL. MC 1201.01, EOC-14
								PROCEDURE 54-ISI-364-00 TO BE USED
<hr/>								
<b>Total B13.010 Items:</b>		<b>1</b>						

**CATEGORY B-N-2, Integral Welded Core  
Support Structures And Interior Attach of RV**

**Reactor Vessel (PWR)**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Interior Attachments Beyond Beltline Region ****</b>								
B13.060.001	1RPV-KEYWAY		See Com	VT-3	SS	0.000		6 RADIAL KEYWAYS - APPROX. 60 DEGREES INTERVALS LOWER SHELL, EOC-14 PROCEDURE 54-ISI-364-00 TO BE USED
Class A								
B13.060.002	1RPV-INCORE		See Com	VT-3	SS	0.000		56 INCORE INSTRUMENTATION NOZZLES ( BOTTOM HEAD ), EOC-14 PROCEDURE 54-ISI-364-00 TO BE USED
Class A								
<b>Total B13.060 Items:</b>		<b>2</b>						

**CATEGORY B-N-3, Removable Core Support Structures**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Reactor Vessel (PWR)**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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**\*\*\*\* Core Support Structure \*\*\*\***

B13.070.001	1RPV-CORE-SUP		See Com	VT-3	SS		0.000 0.000	INSPECT WHEN STRUCTURE REMOVED FROM REACTOR VESSEL, EOC-14 PROCEDURE 54-ISI-364-00 TO BE USED
Class A								

**Total B13.070 Items: 1**

**Total B13 Items: 4**

**CATEGORY C-A, Pressure Retaining Welds In  
Pressure Vessels**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

**Shell Circumferential Welds**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.010.050	1RHR-1A-3-4	MCM 1201.06-22	NDE-12	RT	SS	35.750		RHR HEAT EXCHANGER 1A
	Circumferential					0.750		NOZZLE BELT TO FLANGE
	Class B							

**Total C01.010 Items: 1**

**CATEGORY C-A, Pressure Retaining Welds In  
Pressure Vessels**

**Head Circumferential Welds**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.020.030	1RHR-1A-2-3 Circumferential Class B	MCM 1201.06-22	NDE-12	RT	SS	35.750 0.750		RHR HEAT EXCHANGER 1A NOZZLE BELT TO HEAD
C01.020.074	5141-3-HD1 Circumferential Class B	MCM 1201.06-54	NDE-630	UT	SS	10.920 1.075	50428	REGENERATIVE HEAT EXCHANGER NOZZLE BELT TO HEAD (SHELL 3) TO BE DONE FROM SHELL SIDE NOT TO BE EXAMINED REFERENC REQUEST FOR RELIEF 98-002
C01.020.075	5141-3-HD2 Circumferential Class B	MCM 1201.06-54	NDE-630	UT	SS	10.920 1.075	50428	REGENERATIVE HEAT EXCHANGER SHELL TO HEAD (SHELL 3) TO BE DONE FROM SHELL SIDE NOT TO BE EXAMINED REFERENCE REQUEST FOR RELIEF 98-002
<b>Total C01.020 Items:</b>		<b>3</b>						

**CATEGORY C-A, Pressure Retaining Welds In  
Pressure Vessels**

**Tubesheet-to-Shell Weld**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.030.024	5141-3-NB-TS Circumferential Class B	MCM 1201.06-54	NDE-630	UT	SS	10.920 1.075	50428	REGENERATIVE HEAT EXCHANGER NOZZLE BELT TO TUBESHEET/(SHELL 3) NOT TO BE EXAMINED REFERENCE REQUEST FOR RELIEF 98-002
C01.030.025	5141-3-TS-SH Circumferential Class B	MCM 1201.06-54	NDE-630	UT	SS	10.920 1.075	50428	REGENERATIVE HEAT EXCHANGER TUBESHEET TO SHELL (SHELL 3) NOT TO BE EXAMINED REFERENCE REQUEST FOR RELIEF 98-002
<b>Total C01.030 Items:</b>		<b>2</b>						
<b>Total C01 Items:</b>		<b>6</b>						

**CATEGORY C-B, Pressure Retaining Nozzle****Welds In Vessels****Nozzles Without Reinforcing Plate In Vessels >****1/2 in. Nom. Thickness**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle-to-Shell (or Head) Weld ****</b>								
C02.021.008	1SGD-W259	MCM 1201.01-0782	NDE-620	UT	CS	6.000	5139385	STEAM GENERATOR 1D AUXILLARY
	Circumferential		See Com			4.125	50236A	FEEDWATER NOZZLE TO STEAM DRUM
Class B				Nozzle SG1D to				.REFERENCE 1MNS-081. NOTE: I.D. # WAS
				STEAM DRUM				1SGC-SB-02 PRIOR TO S/G MOD . DEPENDING
								UPON THE EXAMINER'S QUALIFICATIONS,
								PROCEDURE PDI-UT-6 MAY BE USED IN LIEU C
								PROCEDURE NDE-620.
C02.021.008A	1SGD-W259	MCM 1201.01-0782	NDE-25	MT	CS	6.000		STEAM GENERATOR 1D AUXILLARY
	Circumferential					4.125		FEEDWATER NOZZLE TO STEAM DRUM
Class B				Nozzle SG1D to				.REFERENCE 1MNS-081. NOTE: I.D. # WAS
				STEAM DRUM				1SGC-SB-02 PRIOR TO S/G MOD .
<b>Total C02.021 Items:</b>		<b>2</b>						

DUKE ENERGY CORPORATION  
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**CATEGORY C-B, Pressure Retaining Nozzle  
 Welds In Vessels**

McGuire 1

**Nozzles With Reinforcing Plate In Vessels > 1/2**

**in. Nominal Thickness**

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>*** Reinforcing Plate Welds to Nozzle and Vessel ***</b>								
C02.031.001	1RHR-1A-INLET	MCM 1201.06-22	NDE-35	PT	SS	14.000 0.750		RHR HEAT EXCHANGER 1A INLET NOZZLE A AND REINFORCING PADS
Class B								
C02.031.002	1RHR-1A OUTLET	MCM 1201.06-22	NDE-35	PT	SS	14.000 0.750		RHR HEAT EXCHANGER 1A OUTLET NOZZLE B AND REINFORCING PADS
Class B								
C02.031.003	1ACSHX-A-INLET	MCM 1201.06-25	NDE-25	MT	CS	10.000 0.250		1A CONTAINMENT SPRAY HEAT EXCHANGER, INLET NOZZLE A AND REINFORCING PADS TO VESSEL (VESSEL THICKNESS .625)
Class B								
C02.031.004	1ACSHX-B-OUTLET	MCM 1201.06-25	NDE-25	MT	CS	10.000 0.250		1A CONTAINMENT SPRAY HEAT EXCHANGER, OUTLET NOZZLE B, AND REINFORCING PADS TO VESSEL (VESSEL THICKNESS .625)
Class B								
<b>Total C02.031 Items: 4</b>								
<b>*** Nozzle-to-Shell (or Head) Welds When Inside of Vessel Is Inaccessible ***</b>								
C02.033.001	1RHR-1A-INLET	MCM 1201.06-22	QAL-15	VT-2	SS	14.000 0.750		RHR HEAT EXCH. 1A INLET NOZ. A AND REINF. PADS:EXAM. EACH PER.,REF. C07.030.005 (1ST & 2ND PER. ,C07.040.018 (3RD PER.) THESE ITEMS WILL BE EXAMINED BEFORE DECEMBER 1, 2001. REPORT WILL BE SUBMITTED TO NRC AFTER EXAMINATION.
Class B								
C02.033.002	1RHR-1A-OUTLET	MCM 1201.06-22	QAL-15	VT-2	SS	14.000 0.750		RHR HEAT EXCH. 1A OUTLET NOZ. B AND REINF. PADS:EXAM. EACH PERIOD,REF. C07.030.005 (1ST & 2ND PER. ),C07.040.018 (3RD PER.) THESE ITEMS WILL BE EXAMINED BEFORE DECEMBER 1, 2001. REPORT WILL BE SUBMITTED TO NRC AFTER EXAMINATION.
Class B								

**CATEGORY C-B, Pressure Retaining Nozzle  
Welds In Vessels**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

## Inservice Inspection Plan for Interval 2 Outage 7

**Nozzles With Reinforcing Plate In Vessels > 1/2  
in. Nominal Thickness**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C02.033.005	1ACSHX-1A-INLET	MCM 1201.06-25 MC 1563-1.0	QAL-15	VT-2	SS	10.000 0.250		CONT.SPRY. HX 1A INLET NOZ.A AND REINF. PADS:EXAM. EACH PERIOD,REF. C07.030.009 (1ST & 2ND PER.),C07.040.024(3RD PERIOD) THESE ITEMS WILL BE EXAMINED BEFORE DECEMBER 1, 2001. REPORT WILL BE SUBMITTED TO NRC AFTER EXAMINATION.
Class B								
C02.033.006	1ACSHX-1B-OUTLET	MCM 1201.06-25 MC 1563-1.0	QAL-15	VT-2	SS	10.000 0.250		CONT.SPRY.HX 1A OUTLET NOZ.A AND REINF.PADS:EXAM. EACH PERIOD,REF. C07.030.009 (1ST & 2ND PER. ) ,C07.040.024(3RD PERIOD) THESE ITEMS WILL BE EXAMINED BEFORE DECEMBER 1, 2001. REPORT WILL BE SUBMITTED TO NRC AFTER EXAMINATION.
Class B								
<b>Total C02.033 Items:</b>		<b>4</b>						
<b>Total C02 Items:</b>		<b>10</b>						

**CATEGORY C-C, Integral Attachments For  
Vessels, Piping, Pumps, And Valves**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Pressure Vessels**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Integrally Welded Attachments ****</b>								
C03.010.001	1RHRHX-1A-SUPP	MCM 1201.06-22	NDE-35	PT	CS	0.000		RHR HEAT EXCHANGER SUPPORT 1A
		MCM 1201.06-48				0.750		

Class B

Total C03.010 Items: 1

**CATEGORY C-C, Integral Attachments For  
Vessels, Piping, Pumps, And Valves**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

**Piping**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Integrally Welded Attachments ****</b>								
C03.020.037	1MCR-SM-157	MC-SM-1C MCSR-D-SMA/5	NDE-25	MT	CS	0.000 0.906		Integral Attachment Per station personell this attachment is under guard pipe making it inaccessible. Per Code Case N-491 this attachment can be exempted
Class B								

<b>Total C03.020 Items:</b>	<b>1</b>
<b>Total C03 Items:</b>	<b>2</b>

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**CATEGORY C-F-1, Pressure Retaining Welds  
 In Austenitic SS or High Alloy Piping**

**Piping Welds >= 3/8 in. Nominal Wall Thickness  
 for Piping > NPS 4**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>									
C05.011.109	1NI352-1	NI	MCFI-1NI53	NDE-600	UT	SS	8.000	50210	
	Circumferential		MC 1562-3.0			160	0.906		
Class B					Pipe to Elbow				
C05.011.109A	1NI352-1	NI	MCFI-1NI53	NDE-35	PT	SS	8.000		
	Circumferential		MC 1562-3.0			160	0.906		
Class B					Pipe to Elbow				
C05.011.113	1NI1F-167	NI	MCFI-1NI60	NDE-600	UT	SS	8.000	50210	
	Circumferential		MC 1562-3.1			160	0.906		
Class B					Elbow to Pipe				
C05.011.113A	1NI1F-167	NI	MCFI-1NI60	NDE-35	PT	SS	8.000		
	Circumferential		MC 1562-3.1			160	0.906		
Class B					Elbow to Pipe				
C05.011.114	1NI1F-284	NI	MCFI-1NI77	NDE-600	UT	SS	6.000	50211	
	Circumferential		MC 1562-2.0			160	0.719		
Class B					Reducer to Pipe				
C05.011.114A	1NI1F-284	NI	MCFI-1NI77	NDE-35	PT	SS	6.000		
	Circumferential		MC 1562-2.0			160	0.719		
Class B					Reducer to Pipe				
C05.011.115	1NI201-1	NI	MCFI-1NI77	NDE-600	UT	SS	6.000	50211	
	Circumferential		MC 1562-2.0			160	0.719		
Class B					Pipe to Elbow				
C05.011.115A	1NI201-1	NI	MCFI-1NI77	NDE-35	PT	SS	6.000		
	Circumferential		MC 1562-2.0			160	0.719		
Class B					Pipe to Elbow				

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**CATEGORY C-F-1, Pressure Retaining Welds  
 In Austenitic SS or High Alloy Piping**

**Piping Welds  $\geq$  3/8 in. Nominal Wall Thickness  
 for Piping  $>$  NPS 4**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.011.118	1NI205-3	NI	MCFI-1NI77 MC 1562-2.0	NDE-600	UT	SS 160	6.000 0.719	50211	Class B Elbow to Pipe
C05.011.118A	1NI205-3	NI	MCFI-1NI77 MC 1562-2.0	NDE-35	PT	SS 160	6.000 0.719		Class B Elbow to Pipe
C05.011.119	1NI205-1	NI	MCFI-1NI77 MC 1562-2.0	NDE-600	UT	SS 160	6.000 0.719	50211	Class B Elbow to Pipe
C05.011.119A	1NI205-1	NI	MCFI-1NI77 MC 1562-2.0	NDE-35	PT	SS 160	6.000 0.719		Class B Elbow to Pipe
C05.011.120	1NI1F-293	NI	MCFI-1NI77 MC 1562-2.0	NDE-600	UT	SS 160	6.000 0.719	50211	Class B Pipe to Valve
C05.011.120A	1NI1F-293	NI	MCFI-1NI77 MC 1562-2.0	NDE-35	PT	SS 160	6.000 0.719		Class B Pipe to Valve
C05.011.121	1NI196-1	NI	MCFI-1NI78 MC 1562-3.1	NDE-600	UT	SS 160	8.000 0.906	50210	Class B Pipe to Elbow
C05.011.121A	1NI196-1	NI	MCFI-1NI78 MC 1562-3.1	NDE-35	PT	SS 160	8.000 0.906		Class B Pipe to Elbow
C05.011.122	1NI196-4	NI	MCFI-1NI78 MC 1562-3.1	NDE-600	UT	SS 160	8.000 0.906	50210	Class B Elbow to Pipe



**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS or High Alloy Piping**

**Piping Welds >= 3/8 in. Nominal Wall Thickness  
for Piping > NPS 4**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

## Inservice Inspection Plan for Interval 2 Outage 7

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.011.129	1N1169-4	NI MCFI-1N184 MC 1562-3.1	NDE-600	UT	SS 160	8.000 0.906		50210	Elbow to Pipe
Class B									
C05.011.129A	1N1169-4	NI MCFI-1N184 MC 1562-3.1	NDE-35	PT	SS 160	8.000 0.906			Elbow to Pipe
Class B									
C05.011.131	1N1181-1	NI MCFI-1N184 MC 1562-3.1	NDE-600	UT	SS 160	6.000 0.719		50211	Reducer to Pipe
Class B									
C05.011.131A	1N1181-1	NI MCFI-1N184 MC 1562-3.1	NDE-35	PT	SS 160	6.000 0.719			Reducer to Pipe
Class B									
C05.011.135	1N1170-1	NI MCFI-1N184 MC 1562-3.1	NDE-600	UT	SS 160	6.000 0.719		50211	Reducer to Pipe
Class B									
C05.011.135A	1N1170-1	NI MCFI-1N184 MC 1562-3.1	NDE-35	PT	SS 160	6.000 0.719			Reducer to Pipe
Class B									
C05.011.137	1N11F256	NI MCFI-1N184 MC 1562-3.1	NDE-600	UT	SS 160	6.000 0.719		50211	Elbow to Pipe
Class B									
C05.011.137A	1N11F256	NI MCFI-1N184 MC 1562-3.1	NDE-35	PT	SS 160	6.000 0.719			Elbow to Pipe
Class B									
C05.011.149	1N1173-2	NI MCFI-1N184	NDE-600	UT	SS 160	6.000 0.719		50211	Pipe to Elbow
Class B									

**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS or High Alloy Piping**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Piping Welds >= 3/8 in. Nominal Wall Thickness  
for Piping > NPS 4**

McGuire 1  
Inservice Inspection Plan for Interval 2 Outage 7

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.011.149A	1N1173-2	NI MCFI-1N184	NDE-35	PT	SS	6.000		
	Circumferential				160	0.719		Pipe to Elbow
	Class B							
C05.011.152	1N11F478	NI MCFI-1N153	NDE-600	UT	SS	8.000		
	Circumferential					0.906		Elbow to Pipe
	Class B							
C05.011.152A	1N11F478	NI MCFI-1N153	NDE-35	PT	SS	8.000		
	Circumferential					0.906		Elbow to Pipe
	Class B							
C05.011.156	1N1205-2	NI MCFI-1N177	NDE-600	UT	SS	6.000		
	Circumferential					0.719		Pipe to Elbow
	Class B							
C05.011.156A	1N1205-2	NI MCFI-1N177	NDE-35	PT	SS	6.000		
	Circumferential					0.719		Pipe to Elbow
	Class B							
C05.011.157	1N1171-4	NI MCFI-1N184	NDE-600	UT	SS	6.000		
	Circumferential					0.719		Pipe to Elbow
	Class B							
C05.011.157A	1N1171-4	NI MCFI-1N184	NDE-35	PT	SS	6.000		
	Circumferential					0.719		Pipe to Elbow
	Class B							
C05.011.158	1N1181-2	NI MCFI-1N184	NDE-600	UT	SS	6.000		
	Circumferential					0.719		Pipe to Elbow
	Class B							
C05.011.158A	1N1181-2	NI MCFI-1N184	NDE-35	PT	SS	6.000		
	Circumferential					0.719		Pipe to Elbow
	Class B							

**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS or High Alloy Piping**

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**Piping Welds >= 3/8 in. Nominal Wall Thickness  
for Piping > NPS 4**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
C05.011.159	1NI182-3	NI MCFI-1NI84	NDE-600	UT	SS	6.000		
	Circumferential					0.719		
	Class B							Pipe to Elbow
C05.011.159A	1NI182-3	NI MCFI-1NI84	NDE-35	PT	SS	6.000		
	Circumferential					0.719		
	Class B							Pipe to Elbow
C05.011.160	1NI182-4	NI MCFI-1NI84	NDE-600	UT	SS	6.000		
	Circumferential					0.719		
	Class B							Elbow to Pipe
C05.011.160A	1NI182-4	NI MCFI-1NI84	NDE-35	PT	SS	6.000		
	Circumferential					0.719		
	Class B							Elbow to Pipe
C05.011.161	1NI182-2	NI MCFI-1NI84	NDE-600	UT		6.000		
	Circumferential					0.719		
	Class B							Elbow to Pipe
C05.011.161A	1NI182-2	NI MCFI-1NI84	NDE-35	PT		6.000		
	Circumferential					0.719		
	Class B							Elbow to Pipe
<b>Total C05.011 Items:</b>		<b>50</b>						



**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS or High Alloy Piping**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

**Piping Welds > 1/5 in. Nom Wall For Piping >=  
NPS 2 And <= NPS 4**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.087	1NV1FW175-31	NV MCFI-1NV-175	NDE-600	UT	SS	2.000	50439	
	Circumferential	MC-1554-3.0			160	0.344		Reducer to Pipe
	Class B							
C05.021.087A	1NV1FW175-31	NV MCFI-1NV-175	NDE-35	PT	SS	2.000		
	Circumferential	MC-1554-3.0			160	0.344		Reducer to Pipe
	Class B							
C05.021.088	1NV1FW182-14	NV MCFI-1NV182	NDE-600	UT	SS	4.000	50438	
	Circumferential				40	0.237		Pipe to Tee
	Class B							
C05.021.088A	1NV1FW182-14	NV MCFI-1NV182	NDE-35	PT	SS	4.000		
	Circumferential				40	0.237		Pipe to Tee
	Class B							
C05.021.089	1NV1FW182-13	NV MCFI-1NV-182	NDE-600	UT	SS	4.000	50438	
	Circumferential	MC-1554-3.0			40	0.237		Tee to Pipe
	Class B							
C05.021.089A	1NV1FW182-13	NV MCFI-1NV-182	NDE-35	PT	SS	4.000		
	Circumferential	MC-1554-3.0			40	0.237		Tee to Pipe
	Class B							
C05.021.090	1NV1FW182-9	NV MCFI-1NV-182	NDE-600	UT	SS	4.000	50438	
	Circumferential	MC-1554-3.0			40	0.237		Pipe to Elbow
	Class B							
C05.021.090A	1NV1FW182-9	NV MCFI-1NV-182	NDE-35	PT	SS	4.000		
	Circumferential	MC-1554-3.0			40	0.237		Pipe to Elbow
	Class B							

**Total C05.021 Items: 16**



**CATEGORY C-F-1, Pressure Retaining Welds  
In Austenitic SS or High Alloy Piping**

**Socket Welds**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.030.014	1NI1F-308	NI MCFI-1NI103 MC-1562-3.1	NDE-35	PT	SS 160	2.000 0.344		Class B Elbow to Pipe

Total C05.030 Items: 9

**CATEGORY C-F-2, Pressure Retaining Welds  
In Carbon Or Low Alloy Steel Piping**

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**Piping Welds >= 3/8 in. Nominal Wall Thickness  
for Piping > NPS 4**

McGuire 1  
Inservice Inspection Plan for Interval 2 Outage 7

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>										
C05.051.003	1CA1F-948	CA	MCFI-1CA-13 MC-1592-1.0	NDE-600	UT	CS 80	6.000 0.432		50331	
Class B	Circumferential									Elbow to Pipe
C05.051.003A	1CA1F-948	CA	MCFI-1CA-13 MC-1592-1.0	NDE-25	MT	CS 80	6.000 0.432			
Class B	Circumferential									Elbow to Pipe
C05.051.014	1CAP306-1	CA	MCFI-1CA19 MC-1592-1.0	NDE-600	UT	CS 80	6.000 0.432		50331	
Class B	Circumferential									Pipe to Elbow
C05.051.014A	1CAP306-1	CA	MCFI-1CA19 MC-1592-1.0	NDE-35	PT	CS 80	6.000 0.432			
Class B	Circumferential									Pipe to Elbow
C05.051.060	1CF1F-482	CF	MCFI-1CF-4 MC 1591-1.1	NDE-600	UT	CS 80	18.000 0.938		50330	
Class B	Circumferential									Valve to Pipe
C05.051.060A	1CF1F-482	CF	MCFI-1CF-4 MC 1591-1.1	NDE-25	MT	CS 80	18.000 0.938			
Class B	Circumferential									Valve to Pipe
C05.051.200	1SM1F19-1	SM	MCFI-1SM19 MC 1593-1.0	NDE-600	UT	CS	6.000 1.500		50441	
Class B	Circumferential									TRANSITION PIECE to Flange
C05.051.200A	1SM1F19-1	SM	MCFI-1SM19 MC 1593-1.0	NDE-25	MT	CS	6.000 1.500			
Class B	Circumferential									TRANSITION PIECE to Flange

DUKE ENERGY CORPORATION  
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**CATEGORY C-F-2, Pressure Retaining Welds  
 In Carbon Or Low Alloy Steel Piping**

McGuire 1

**Piping Welds >= 3/8 In. Nominal Wall Thickness  
 for Piping > NPS 4**

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.211	1SM1F-2B Circumferential	SM	MCFI-1SM5 MC 1593-1.0	NDE-600	UT	CS	34.000 1.250	50444	34" MIN. W 1.250 NOM. W 1.375
Class B									
C05.051.211A	1SM1F-2B Circumferential	SM	MCFI-1SM5 MC 1593-1.0	NDE-25	MT	CS	34.000 1.250		
Class B									
C05.051.212	1SM1F-3B Circumferential	SM	MCFI-1SM5 MC 1593-1.0	NDE-600	UT	CS	34.000 1.250	50444	34" MIN. W 1.250 NOM. W 1.375
Class B									
C05.051.212A	1SM1F-3B Circumferential	SM	MCFI-1SM5 MC 1593-1.0	NDE-25	MT	CS	34.000 1.250		
Class B									
C05.051.217	1SM1F-3A Circumferential	SM	MCFI-1SM3 MC 1593-1.0	NDE-600	UT	CS	34.000 1.250	50444	34" MIN. W 1.250 NOM. W 1.375
Class B									
C05.051.217A	1SM1F-3A Circumferential	SM	MCFI-1SM3 MC 1593-1.0	NDE-25	MT	CS	34.000 1.250		
Class B									
<b>Total C05.051 Items:</b>		<b>14</b>							
<b>Total C05 Items:</b>		<b>89</b>							

**CATEGORY D-A, Systems In Support Of  
Reactor Shutdown Function**

**Integral Attachment**

DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
Inservice Inspection Database Management System

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** Component Supports and Restraints ****</b>								
D01.020.028	1-MCA-CA-44	CA MCSRD-CAE	QAL-14	VT-3	NA		4.000 0.000	INTEGRAL ATTACHMENT
	Rigid Support							
	Class C							
D01.020.032	1-MCA-CA-65	CA MCSRD-CAD	QAL-14	VT-3	NA		4.000 0.000	INTEGRAL ATTACHMENT
	Rigid Support							
	Class C							
D01.020.033	1-MCA-CA-8	CA MCSRD-CAE	QAL-14	VT-3	NA		4.000 0.000	INTEGRAL ATTACHMENT
	Rigid Support							
	Class C							
D01.020.034	1-MCA-CA-9	CA MCSRD-CAF	QAL-14	VT-3	NA		4.000 0.000	INTEGRAL ATTACHMENT
	Rigid Support							
	Class C							
D01.020.047	1-MCA-KC-2134	KC MCSRD-KC-304SHT1 MCFD 1573-01.01	QAL-14	VT-3	NA		0.000 0.125	INTEGRAL ATTACHMENT
	Rigid Restraint							
	Class C							
<b>Total D01.020 Items:</b>		<b>5</b>						
<b>Total D01 Items:</b>		<b>5</b>						



**CATEGORY F-A, Supports (Category A)**

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**Class 1 Piping Supports**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.010.122C	1-MCR-NI-913	NI MCSRD NI-014 sht. 1	QAL-14	VT-3	NA	1.500	0.000	
	Spring Hgr							
	Class A							
F01.010.155B	1-MCR-NV-859	NV MCSRD NV-09 sht. 1	QAL-14	VT-3	NA	1.500	0.000	
	Class A							
F01.010.156B	1-MCR-NV-895	NV MCSRD NV-07 sht. 1	QAL-14	VT-3	NA	2.000	0.000	
	Class A							
<b>Total F01.010 Items:</b>		<b>11</b>						

**CATEGORY F-A, Supports (Category A)**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
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**Class 2 Piping Supports**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.005C	1-MCR-CA-397	CA MCSRD-CAN	QAL-14	VT-3	NA		6.000	
	Spring Hgr						0.000	
	Class B							
F01.020.013C	1-MCA-CA-468	CA MCSRD-CAP	QAL-14	VT-3	NA		6.000	
	Mech Snubber						0.000	
	Class B							
F01.020.055A	1-MCA-CF-205	CF MCSRD-CFC/12 of 13	QAL-14	VT-3	NA		18.000	
	Rigid Support						0.000	
	Class B							
F01.020.057C	1-MCR-CF-400	CF MCSRD-CFC/12 of 13	QAL-14	VT-3	NA		24.000	
	Rigid Restraint						0.000	
	Class B							
F01.020.102C	1-MCA-FW-H10	FW MCSRD-FWA Sht.1 MCFD 1571-01.00	QAL-14	VT-3	NA		0.000	
	Spring Hgr						0.000	
	Class B							
F01.020.104A	1-MCA-FW-H11	FW MCSRD-FWA Sht.1 MCFD 1571-01.00	QAL-14	VT-3	NA		0.000	
	Rigid Support						0.000	
	Class B							
F01.020.105C	1-MCA-FW-H111	FW MCSRD-FWA Sht.1 MCFD 1571-01.00	QAL-14	VT-3	NA		0.000	
	Mech Snubber						0.000	
	Class B							
F01.020.106A	1-MCA-FW-H127	FW MCSRD-FWA Sht.1 MCFD 1571-01.00	QAL-14	VT-3	NA		0.000	
	Rigid Support						0.000	
	Class B							





**CATEGORY F-A, Supports (Category A)**

DUKE ENERGY CORPORATION  
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 Inservice Inspection Database Management System

**Class 2 Piping Supports**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.276A	1-MCR-NS-709	NS MCSRD NS-005 sht. 2	QAL-14	VT-3	NA		8.000	
	Rigid Support						0.000	
	Class B							
F01.020.277A	1-MCR-NS-714	NS MCSRD NS-005 sht. 2	QAL-14	VT-3	NA		8.000	
	Rigid Support						0.000	
	Class B							
F01.020.337A	1-MCA-NV-095	NV MCSRD NVE sht. 2	QAL-14	VT-3	NA		4.000	
	Rigid Support						0.000	
	Class B							
F01.020.338A	1-MCA-NV-195	NV MC 1190-NV-01-03	QAL-14	VT-3	NA		3.000	
	Rigid Support						0.000	
	Class B							
F01.020.339A	1-MCA-NV-197	NV MC 1190-NV-01-03	QAL-14	VT-3	NA		3.000	
	Rigid Support						0.000	
	Class B							
F01.020.340A	1-MCA-NV-274	NV MC 1190-NV-01-03	QAL-14	VT-3	NA		3.000	
	Rigid Support						0.000	
	Class B							
F01.020.341A	1-MCA-NV-275	NV MC 1190-NV-01-02	QAL-14	VT-3	NA		4.000	
	Rigid Support						0.000	
	Class B							
F01.020.342A	1-MCA-NV-278	NV MC 1190-NV-01-02	QAL-14	VT-3	NA		2.000	
	Rigid Support						0.000	
	Class B							
F01.020.343A	1-MCA-NV-280	NV MC 1190-NV-01-02	QAL-14	VT-3	NA		2.000	
	Rigid Support						0.000	
	Class B							

**CATEGORY F-A, Supports (Category A)**

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**Class 2 Piping Supports**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
F01.020.344A	1-MCA-NV-281	NV MC 1190-NV-01-02	QAL-14	VT-3	NA		2.000 0.000	
Class B								
F01.020.552C	1-MCA-SM-015	SM MCSRD SMA sht. 2	QAL-14	VT-3	NA		42.000 0.000	
Spring Hgr								
Class B								
F01.020.560A	1-MCA-SM-109	SM MCSRD SMA sht. 3	QAL-14	VT-3	NA		36.000 0.000	
Rigid Support								
Class B								
F01.020.561A	1-MCA-SM-140	SM MCSRD SMA sht. 5	QAL-14	VT-3	NA		36.000 0.000	
Rigid Support								
Class B								
F01.020.655B	1-MCR-VQ-541	VQ MCSRD VQ-01 sht. 1	QAL-14	VT-3	NA		6.000 0.000	
Rigid Support								
Class B								
<b>Total F01.020 Items:</b>		<b>40</b>						

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
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**CATEGORY F-A, Supports (Category A)**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7****Class 3 Piping Supports**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.030.021A	1-MCA-CA-8	CA MCSRDCAE	QAL-14	VT-3	NA		4.000 0.125	
	Rigid Support							
	Class C							
F01.030.022A	1-MCA-CA-9	CA MCSRDCAF	QAL-14	VT-3	NA		4.000 0.125	
	Rigid Support							
	Class C							
F01.030.023A	1-MCA-CA-44	CA MCSRDCAE	QAL-14	VT-3	NA		4.000 0.125	
	Rigid Support							
	Class C							
F01.030.024A	1-MCA-CA-65	CA MCSRDCAD	QAL-14	VT-3	NA		4.000 0.125	
	Rigid Support							
	Class C							
F01.030.174B	1-MCA-RN-1177	RN MCSRDRN-304/SHT.2 MCFD 1574-01.01	QAL-14	VT-3	NA		0.000 0.000	
	Rigid Restraint							
	Class C							
F01.030.175B	1-MCA-RN-1559	RN MCSRDRN-305/SHT.1 MCFD 1574-01.00	QAL-14	VT-3	NA		0.000 0.000	
	Rigid Restraint							
	Class C							
F01.030.176B	1-MCA-RN-1301	RN MCSRDRN-306/SHT.1 MCFD 1574-03.00	QAL-14	VT-3	NA		0.000 0.000	
	Rigid Restraint							
	Class C							
F01.030.177B	1-MCA-RN-1548	RN MCSRDRN-305/SHT.2 MCFD 1574-01.01	QAL-14	VT-3	NA		0.000 0.000	
	Rigid Restraint							
	Class C							

**CATEGORY F-A, Supports (Category A)**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**Class 3 Piping Supports**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.030.178B	1-MCA-RN-2475	RN MCSRD-RN-306/SHT.1	QAL-14	VT-3	NA		0.000	
	Rigid Restraint	MCFD 1574-03.00					0.000	
Class C								
F01.030.179B	1-MCA-RN-1508	RN MCSRD-RN-307-SHT 3	QAL-14	VT-3	NA		0.000	
	Rigid Restraint	MCFD 1574-03.00'					0.000	
Class C								
F01.030.180B	1-MCA-RN-2017	RN MCSRD-RN-307/SHT 4	QAL-14	VT-3	NA		0.000	
	Rigid Restraint	MCFD 1574-03.01'					0.000	
Class C								
F01.030.181B	1-MCA-RN-2346	RN MCSRD-RN-309/SHT 1	QAL-14	VT-3	NA		0.000	
	Rigid Restraint	MCFD 1574-01.00'					0.000	
Class C								
F01.030.182B	1-MCA-RN-2315	RN MCSRD-RN-309/SHT 2	QAL-14	VT-3	NA		0.000	
	Rigid Restraint	MCFD 1574-01.00'					0.000	
Class C								
F01.030.184A	1-MCA-RN-H953	RN MCSRD-CAJ-SHT 2	QAL-14	VT-3	NA		0.000	
	Rigid Support	MCFD 1574-01.00'					0.000	
Class C								
F01.030.185A	1-MCA-RN-1322	RN MCSRD-RN-157/SHT.1	QAL-14	VT-3	NA		0.000	
	Rigid Support	MCFD 1574-01.00					0.000	
Class C								
F01.030.186A	1-MCA-RN-2030	RN MCSRD-RN-301/SHT.1	QAL-14	VT-3	NA		0.000	
	Rigid Support	MCFD 1574-02.00					0.000	
Class C								
F01.030.187A	1-MCA-RN-1343	RN MCSRD-RN-301/SHT.2	QAL-14	VT-3	NA		0.000	
	Rigid Support	MCFD 1574-01.01					0.000	
Class C								





**CATEGORY F-A, Supports (Category A)**

DUKE ENERGY CORPORATION  
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McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

**Class 3 Piping Supports**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
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Total F01.030 Items: 35

**CATEGORY F-A, Supports**

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**Supports other than Piping Supports (Class 1, 2,  
 3)**

McGuire 1  
 Inservice Inspection Plan for Interval 2 Outage 7

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.040.006	1SGC-LATERALS	MC 1070-5.1 MC 1070-10.1 MCM 1117.03-0055	QAL-14	VT-3	NA		0.000 0.000	STEAM GENERATOR LOWER AND UPPER LATERAL AND SNUBBERS HANGER FUNCTION CATEGORIZATION C/STEAM GENERATOR C
F01.040.015	1SWIF-SUP	MC 1201.04-27 MC 1223-1	QAL-14	VT-3	NA		0.000 0.000	SEAL WATER INJECTION FILTER 1A HANGER FUNCTION CATEGORIZATION B
F01.040.033	1VGTK-SUP-1A1	MCM 1301.00-80	QAL-14	VT-3	NA		0.000 0.000	1A1 DIESEL GENERATOR STARTING AIR TANK SUPPORT SKIRT HANGER FUNCTION CATEGORIZATION B
F01.040.034	1WNP-SUP-1B	MCM 1203.04-74 MC 1231-20	QAL-14	VT-3	NA		0.000 0.000	1B WN SUMP PUMP SUPPORT HANGER FUNCTION CATEGORIZATION B
F01.040.035	1DG-SUP-1A	MCM 1301.00-02	QAL-14	VT-3	NA		0.000 0.000	1A DIESEL GENERATOR SUPPORT HANGER FUNCTION CATEGORIZATION B
F01.040.036	1LDT-SUP-1A	MCM 1218.04-03	QAL-14	VT-3	NA		0.000 0.000	1A LUBE OIL FILTER SUPPORT HANGER FUNCTION CATEGORIZATION B
F01.040.039	1LDST-SUP-1A	MCM 1218.01-0051	QAL-14	VT-3	NA		0.000 0.000	1A LUBE OIL STRAINER SUPPORT HANGER FUNCTION CATEGORIZATION B
F01.040.040	1CAP-TD-SUP	MCM 1201.05-218	QAL-14	VT-3	NA		0.000 0.000	AUXILLARY FEEDWATER PUMP TURBINE DRIVEN SUPPORT HANGER FUNCTION CATEGORIZATION B

**Total F01.040 Items: 8**

**Total F01 Items: 94**

**CATEGORY AUG, Augmented Inspections**

DUKE ENERGY CORPORATION  
 QUALITY ASSURANCE TECHNICAL SERVICES  
 Inservice Inspection Database Management System

**Augmented Exam, Pipe Rupture Protection**

McGuire 1

**Inservice Inspection Plan for Interval 2 Outage 7**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G03.001.001	1NC-72-1 Circumferential	MCFI-1NC-47	NDE-600	UT	SS	10.000 1.000	50209	AUGMENTED EXAMINATION
G03.001.001A	1NC-72-1 Circumferential	MCFI-1NC-47	NDE-35	PT	SS	10.000 1.000		AUGMENTED EXAMINATION
G03.001.002	1NC1F-107 Circumferential	MCFI-1NC-47	NDE-600	UT	SS	10.000 1.000	50209	TO BE DONE WITH B09.011.061. AUGMENTED EXAMINATION
G03.001.002A	1NC1F-107 Circumferential	MCFI-1NC-47	NDE-35	PT	SS	10.000 1.000		TO BE DONE WITH B09.011.061A. AUGMENTED EXAMINATION
G03.001.003	1NC-73-1 Circumferential	MCFI-1NC-47	NDE-600	UT	SS	10.000 1.000	50209	AUGMENTED EXAMINATION
G03.001.003A	1NC-73-1 Circumferential	MCFI-1NC-47	NDE-35	PT	SS	10.000 1.000		AUGMENTED EXAMINATION
<b>Total G03.001 Items:</b>		<b>6</b>						
<b>Total G03 Items:</b>		<b>6</b>						

## 5.0 ***Results Of Inspections Performed***

The results of each examination shown in the final ISI Plan (Section 4 of this report) are included in this section. The completion date and status for each examination are shown. Limited examinations are described in further detail in Section 5.2. All examinations revealing reportable indications are described in further detail in Section 6.

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

Item Number	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWF-2500-1 (Class 1 and Class 2), Augmented Requirements
ID Number	=	Unique Identification Number
Insp Date	=	Date of Examination
Insp Status	=	CLR Clear REC Recordable REP Reportable
Insp Limited	=	Indicates inspection was limited. Coverage obtained is listed
Geo. Ref. (Geometric Reflector applies only to UT)	=	<u>Y</u> Yes <u>N</u> No
Comments	=	General and/or Detail Description

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B01.011.001	1RPV8-442		04/02/2001	REC	---	Y	N	
B01.011.002	1RPV 9-442		04/04/2001	REC	---	Y	N	
B01.011.003	1RPV10-442		04/03/2001	REC	69.00%	Y	Y	SEE REQUEST FOR RELIEF 01-006
B01.012.001	1RPV 1-442A		03/30/2001	CLR	---	N	N	
B01.012.002	1RPV 1-442B		04/01/2001	REC	---	Y	N	
B01.012.003	1RPV 1-442C		03/30/2001	REC	---	N	N	
B01.012.004	1RPV 2-442A		03/28/2001	REC	---	N	N	
B01.012.005	1RPV 2-442B		04/02/2001	REC	---	N	N	
B01.012.006	1RPV 2-442C		04/01/2001	REC	---	N	N	
B01.012.007	1RPV 3-442A		04/03/2001	REC	79.00%	N	Y	SEE REQUEST FOR RELIEF 01-006
B01.012.008	1RPV 3-442B		04/03/2001	REC	79.00%	N	Y	SEE REQUEST FOR RELIEF 01-006
B01.012.009	1RPV 3-442C		04/01/2001	CLR	79.00%	Y	Y	SEE REQUEST FOR RELIEF 01-006
B01.021.002	1RPV 4-469		04/04/2001	CLR	49.00%	Y	Y	SEE REQUEST FOR RELIEF 01-006
B01.022.006	1RPV 1-202A		04/02/2001	REC	---	N	N	
B01.022.007	1RPV 1-202B		03/31/2001	REC	---	Y	N	
B01.022.008	1RPV 1-202C		03/31/2001	REC	---	N	N	
B01.022.009	1RPV 1-202D		04/03/2001	CLR	---	N	N	
B01.022.010	1RPV 1-202E		04/03/2001	REC	---	N	N	
B01.022.011	1RPV 1-202F		03/29/2001	CLR	---	N	N	
B01.030.001	1RPV 7-442		03/15/2001	CLR	---	Y	N	
B01.030.002	1RPV 7-442		03/31/2001	REC	90.00%	Y	Y	SEE REQUEST FOR RELIEF 01-006
B03.090.001	1RPV5-445A		03/31/2001	REC	---	Y	N	
B03.090.001A	1RPV5-445A		03/31/2001	REC	---	Y	N	
B03.090.002	1RPV5-445B		04/03/2001	CLR	---	Y	N	
B03.090.002A	1RPV5-445B		04/03/2001	CLR	---	Y	N	
B03.090.003	1RPV5-445C		04/02/2001	REC	---	Y	N	
B03.090.003A	1RPV5-445C		04/02/2001	REC	---	Y	N	
B03.090.004	1RPV5-445D		04/01/2001	REC	---	Y	N	
B03.090.004A	1RPV5-445D		04/01/2001	REC	---	Y	N	
B03.090.005	1RPV5-445E		03/31/2001	REC	---	Y	N	
B03.090.005A	1RPV5-445E		03/31/2001	REC	---	Y	N	
B03.090.006	1RPV5-445F		04/03/2001	CLR	---	Y	N	
B03.090.006A	1RPV5-445F		04/03/2001	CLR	---	Y	N	
B03.090.007	1RPV5-445G		04/03/2001	REC	---	Y	N	
B03.090.007A	1RPV5-445G		04/03/2001	REC	---	Y	N	
B03.090.008	1RPV5-445H		04/01/2001	REC	---	Y	N	

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B03.090.008A	1RPV5-445H		04/01/2001	REC	---	Y	N	
B03.100.001	1RPV5-445AR		03/31/2001	CLR	---	N	N	
B03.100.002	1RPV5-445BR		04/03/2001	CLR	---	N	N	
B03.100.003	1RPV5-445CR		04/02/2001	CLR	---	N	N	
B03.100.004	1RPV5-445DR		04/01/2001	CLR	---	N	N	
B03.100.005	1RPV5-445ER		03/31/2001	CLR	---	N	N	
B03.100.006	1RPV5-445FR		04/03/2001	CLR	---	N	N	
B03.100.007	1RPV5-445GR		04/03/2001	CLR	---	N	N	
B03.100.008	1RPV5-445HR		04/01/2001	REC	---	N	N	
B03.110.004	1PZR-14		03/29/2001	CLR	69.07%	N	Y	SEE REQUEST FOR RELIEF 01-007
B04.012.001	1RPV-CRDM		04/15/2001	CLR	---	N	N	
B04.013.001	1RPV-INCORE		04/15/2001	CLR	---	N	N	
B04.020.001	1PZR-HEATER		04/15/2001	CLR	---	N	N	
B05.010.001	1RPV 3-445B-SE		04/04/2001	CLR	---	N	N	
B05.010.001A	1RPV 3-445B-SE		04/04/2001	CLR	---	N	N	
B05.010.002	1RPV 3-445A-SE		03/28/2001	CLR	---	N	N	
B05.010.002A	1RPV 3-445A-SE		03/28/2001	CLR	---	N	N	
B05.010.003	1RPV 3-445D-SE		03/29/2001	REC	---	N	N	
B05.010.003A	1RPV 3-445D-SE		03/29/2001	REC	---	N	N	
B05.010.004	1RPV 3-445C-SE		04/02/2001	CLR	---	N	N	
B05.010.004A	1RPV 3-445C-SE		04/02/2001	CLR	---	N	N	
B05.010.005	1RPV 3-445F-SE		04/03/2001	CLR	---	N	N	
B05.010.005A	1RPV 3-445F-SE		04/03/2001	CLR	---	N	N	
B05.010.006	1RPV 3-445E-SE		03/28/2001	REC	---	N	N	
B05.010.006A	1RPV 3-445E-SE		03/28/2001	REC	---	N	N	
B05.010.007	1RPV 3-445H-SE		03/27/2001	REC	---	N	N	
B05.010.007A	1RPV 3-445H-SE		03/27/2001	REC	---	N	N	
B05.010.008	1RPV 3-445G-SE		04/03/2001	CLR	---	N	N	
B05.010.008A	1RPV 3-445G-SE		04/03/2001	CLR	---	N	N	
B05.070.005	1SGC-INLET-W5SE		03/30/2001	CLR	75.00%	N	Y	SEE REQUEST FOR RELIEF 01-007
B05.070.005A	1SGC-INLET-W5SE		03/28/2001	CLR	---	N	N	
B05.070.006	1SGC-OUTLET-W6SE		03/30/2001	CLR	75.00%	N	Y	SEE REQUEST FOR RELIEF 01-007
B05.070.006A	1SGC-OUTLET-W6SE		03/28/2001	CLR	---	N	N	
B05.130.001	1NC1F-1-1		03/28/2001	CLR	---	N	N	
B05.130.001A	1NC1F-1-1		03/28/2001	CLR	---	N	N	
B05.130.004	1NC1F-1-8		03/28/2001	REC	---	N	N	

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B05.130.004A	1NC1F-1-8		03/28/2001	REC	---	N	N	
B05.130.005	1NC1F-2-1		04/03/2001	CLR	---	N	N	
B05.130.005A	1NC1F-2-1		04/03/2001	CLR	---	N	N	
B05.130.008	1NC1F-2-8		04/04/2001	CLR	---	N	N	
B05.130.008A	1NC1F-2-8		04/04/2001	CLR	---	N	N	
B05.130.009	1NC1F-3-1		04/03/2001	CLR	---	N	N	
B05.130.009A	1NC1F-3-1		04/03/2001	CLR	---	N	N	
B05.130.012	1NC1F-3-8		04/02/2001	CLR	---	N	N	
B05.130.012A	1NC1F-3-8		04/02/2001	CLR	---	N	N	
B05.130.013	1NC1F-4-1		03/27/2001	CLR	---	N	N	
B05.130.013A	1NC1F-4-1		03/27/2001	CLR	---	N	N	
B05.130.016	1NC1F-4-8		03/29/2001	CLR	---	Y	N	
B05.130.016A	1NC1F-4-8		03/29/2001	CLR	---	Y	N	
B06.090.003	1SGB-MW-X1-Y1		03/26/2001	CLR	---	N	N	
B06.090.004	1SGB-MW-X1-Y2		03/26/2001	CLR	---	N	N	
B06.090.005	1SGC-MW-X2-Y1		03/26/2001	CLR	---	N	N	
B06.090.006	1SGC-MW-X2-Y2		03/26/2001	CLR	---	N	N	
B06.100.003	1SGB-MW-X1-Y1		04/12/2001	CLR	---	N	N	
B06.100.004	1SGB-MW-X1-Y2		04/12/2001	CLR	---	N	N	
B06.100.005	1SGC-MW-X2-Y1		04/12/2001	CLR	---	N	N	
B06.100.006	1SGC-MW-X2-Y2		04/12/2001	CLR	---	N	N	
B06.110.003	1SGB-MW-X1-Y1		04/12/2001	CLR	---	N	N	
B06.110.004	1SGB-MW-X1-Y2		04/12/2001	CLR	---	N	N	
B06.110.005	1SGC-MW-X2-Y1		04/12/2001	CLR	---	N	N	
B06.110.006	1SGC-MW-X2-Y2		04/12/2001	CLR	---	N	N	
B07.070.065A	1NI-160		04/13/2001	CLR	---	N	N	
B08.020.001A	1PZR-SKIRT		04/01/2001	REC	75.16%	Y	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.007	1NC1F-1-7	NC	03/28/2001	CLR	33.20%	N	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.007A	1NC1F-1-7	NC	03/28/2001	CLR	---	N	N	
B09.011.008	1NC-3087-W1	NC	03/13/2001	CLR	85.50%	N	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.008A	1NC-3087-W1	NC	03/13/2001	CLR	---	N	N	
B09.011.034	1NC1F-540	NC	03/29/2001	CLR	---	N	N	
B09.011.034A	1NC1F-540	NC	03/29/2001	CLR	---	N	N	
B09.011.035	1NCP-226-1	NC	03/29/2001	CLR	---	N	N	
B09.011.035A	1NCP-226-1	NC	03/29/2001	CLR	---	N	N	
B09.011.061	1NC1F-107	NC	03/23/2001	REC	60.85%	Y	Y	SEE REQUEST FOR RELIEF 01-007

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B09.011.061A	1NC1F-107	NC	03/22/2001	CLR	---	N	N	
B09.011.062	1NC1F-218	NC	03/19/2001	CLR	---	N	N	
B09.011.062A	1NC1F-218	NC	03/18/2001	CLR	---	N	N	
B09.011.063	1NC1F-166	NC	03/23/2001	CLR	---	N	N	
B09.011.063A	1NC1F-166	NC	03/20/2001	CLR	---	N	N	
B09.011.064	1NC-128-9	NC	03/19/2001	CLR	---	N	N	
B09.011.064A	1NC-128-9	NC	03/18/2001	CLR	---	N	N	
B09.011.065	1NC-102-9	NC	03/23/2001	CLR	---	N	N	
B09.011.065A	1NC-102-9	NC	03/22/2001	CLR	---	N	N	
B09.011.069	1NC1F-3613-3092	NC	03/25/2001	REC	60.11%	Y	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.069A	1NC1F-3613-3092	NC	03/25/2001	REC	---	N	N	
B09.011.074	1NC1F-3-2	NC	03/30/2001	REC	75.00%	N	Y	SEE REQUEST FOR RELIEF 01-007 & PIP G-01-0168
B09.011.074A	1NC1F-3-2	NC	03/28/2001	CLR	---	N	N	
B09.011.075	1NC1F-3-3	NC	03/30/2001	CLR	75.00%	N	Y	SEE REQUEST FOR RELIEF 01-007 & PIP G-01-0168
B09.011.075A	1NC1F-3-3	NC	03/28/2001	CLR	---	N	N	
B09.011.207	1NI1F-643	NI	03/31/2001	CLR	60.34%	N	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.207A	1NI1F-643	NI	03/30/2001	CLR	---	N	N	
B09.011.208	1NI-462-1	NI	03/23/2001	CLR	---	N	N	
B09.011.208A	1NI-462-1	NI	03/21/2001	CLR	---	N	N	
B09.011.216	1NI1F-305	NI	03/23/2001	REC	---	Y	N	
B09.011.216A	1NI1F-305	NI	03/22/2001	CLR	---	N	N	
B09.011.219	1NI1F-645	NI	03/31/2001	CLR	60.34%	N	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.219A	1NI1F-645	NI	03/30/2001	CLR	---	N	N	
B09.011.228	1NI1F-280	NI	03/25/2001	REC	60.50%	Y	Y	SEE REQUEST FOR RELIEF 01-007
B09.011.228A	1NI1F-280	NI	03/18/2001	CLR	---	N	N	
B09.021.013	1NC1F-1376	NC	03/18/2001	CLR	---	N	N	
B09.021.014	1NCP-348-3	NC	03/18/2001	CLR	---	N	N	
B09.021.016	1NC1F2-13A	NC	03/22/2001	CLR	---	N	N	
B09.032.101	1NI-183-3	NI	03/14/2001	CLR	---	N	N	
B09.040.020	1NC1F2-18B	NC	03/22/2001	CLR	---	N	N	
B09.040.021	1NC1F2-19B	NC	03/22/2001	CLR	---	N	N	
B09.040.103	1NI1F-2000	NI	03/18/2001	CLR	---	N	N	
B09.040.104	1NI1F-1996	NI	03/18/2001	CLR	---	N	N	
B09.040.105	1NI1F-2020	NI	03/18/2001	CLR	---	N	N	
B09.040.227	1NV25-RCP1A-1	NV	03/20/2001	CLR	---	N	N	
B09.040.228	1NV125-RCP1C-1	NV	03/20/2001	CLR	---	N	N	

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B09.040.229	1NV137-RCP1B-1	NV	03/20/2001	CLR	---	N	N	
B09.040.230	1NV143-RCP1D-1	NV	03/18/2001	CLR	---	N	N	
B13.010.001	1RPV-INTERIOR		04/04/2001	CLR	---	N	N	
B13.060.001	1RPV-KEYWAY		04/03/2001	CLR	---	N	N	
B13.060.002	1RPV-INCORE		04/03/2001	CLR	---	N	N	
B13.070.001	1RPV-CORE-SUP		03/30/2001	CLR	---	N	N	
C01.010.050	1RHR-1A-3-4		03/24/2001	CLR	---	N	N	
C01.020.030	1RHR-1A-2-3		03/24/2001	CLR	---	N	N	
C01.020.074	5141-3-HD1		/ /		---	N	N	SEE REQUEST FOR RELIEF 98-002 AND 98-003
C01.020.075	5141-3-HD2		/ /		---	N	N	SEE REQUEST FOR RELIEF 98-002 AND 98-003
C01.030.024	5141-3-NB-TS		/ /		---	N	N	SEE REQUEST FOR RELIEF 98-002 AND 98-003
C01.030.025	5141-3-TS-SH		/ /		---	N	N	SEE REQUEST FOR RELIEF 98-002 AND 98-003
C02.021.008	1SGD-W259		03/27/2001	CLR	75.00%	N	Y	SEE REQUEST FOR RELIEF 01-007
C02.021.008A	1SGD-W259		03/27/2001	CLR	---	N	N	
C02.031.001	1RHR-1A-INLET		03/26/2001	CLR	---	N	N	
C02.031.002	1RHR-1A OUTLET		03/26/2001	CLR	---	N	N	
C02.031.003	1ACSHX-A-INLET		03/26/2001	CLR	---	N	N	
C02.031.004	1ACSHX-B-OUTLET		03/26/2001	CLR	---	N	N	
C03.010.001	1RHRHX-1A-SUPP		03/26/2001	CLR	---	N	N	
C05.011.109	1NI352-1	NI	03/28/2001	REC	95.76%	Y	Y	SEE REQUEST FOR RELIEF 01-007
C05.011.109A	1NI352-1	NI	03/22/2001	CLR	---	N	N	
C05.011.113	1NI1F-167	NI	04/02/2001	CLR	59.82%	N	Y	SEE REQUEST FOR RELIEF 01-007
C05.011.113A	1NI1F-167	NI	04/02/2001	CLR	---	N	N	
C05.011.114	1NI1F-284	NI	03/17/2001	CLR	---	N	N	
C05.011.114A	1NI1F-284	NI	03/16/2001	CLR	---	N	N	
C05.011.115	1NI201-1	NI	03/17/2001	CLR	---	N	N	
C05.011.115A	1NI201-1	NI	03/16/2001	CLR	---	N	N	
C05.011.118	1NI205-3	NI	03/17/2001	CLR	---	N	N	
C05.011.118A	1NI205-3	NI	03/16/2001	CLR	---	N	N	
C05.011.119	1NI205-1	NI	03/17/2001	CLR	---	N	N	
C05.011.119A	1NI205-1	NI	03/16/2001	CLR	---	N	N	
C05.011.120	1NI1F-293	NI	03/17/2001	REC	61.30%	Y	Y	SEE REQUEST FOR RELIEF 01-007
C05.011.120A	1NI1F-293	NI	03/16/2001	CLR	---	N	N	
C05.011.121	1NI196-1	NI	03/16/2001	CLR	---	N	N	
C05.011.121A	1NI196-1	NI	03/14/2001	REC	---	N	N	
C05.011.122	1NI196-4	NI	03/16/2001	CLR	---	N	N	

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C05.011.122A	1N1196-4	NI	03/14/2001	CLR	---	N	N	
C05.011.123	1N1196-3	NI	03/16/2001	CLR	---	N	N	
C05.011.123A	1N1196-3	NI	03/14/2001	CLR	---	N	N	
C05.011.124	1N1196-2	NI	03/16/2001	CLR	---	N	N	
C05.011.124A	1N1196-2	NI	03/14/2001	CLR	---	N	N	
C05.011.125	1N1197-1	NI	03/17/2001	CLR	---	N	N	
C05.011.125A	1N1197-1	NI	03/16/2001	CLR	---	N	N	
C05.011.126	1N1197-2	NI	03/17/2001	CLR	---	N	N	
C05.011.126A	1N1197-2	NI	03/16/2001	CLR	---	N	N	
C05.011.129	1N1169-4	NI	03/21/2001	CLR	88.50%	N	Y	SEE REQUEST FOR RELIEF 01-007
C05.011.129A	1N1169-4	NI	03/14/2001	CLR	---	N	N	
C05.011.131	1N1181-1	NI	03/21/2001	REC	---	Y	N	
C05.011.131A	1N1181-1	NI	03/14/2001	CLR	---	N	N	
C05.011.135	1N1170-1	NI	03/21/2001	REC	---	Y	N	
C05.011.135A	1N1170-1	NI	03/14/2001	CLR	---	N	N	
C05.011.137	1N11F256	NI	03/31/2001	REC	---	Y	N	
C05.011.137A	1N11F256	NI	03/31/2001	CLR	---	N	N	
C05.011.149	1N1173-2	NI	03/31/2001	CLR	---	N	N	
C05.011.149A	1N1173-2	NI	03/31/2001	CLR	---	N	N	
C05.011.152	1N11F478	NI	03/28/2001	CLR	95.71%	N	Y	SEE REQUEST FOR RELIEF 01-007
C05.011.152A	1N11F478	NI	03/22/2001	CLR	---	N	N	
C05.011.156	1N1205-2	NI	03/17/2001	CLR	---	N	N	
C05.011.156A	1N1205-2	NI	03/16/2001	CLR	---	N	N	
C05.011.157	1N1171-4	NI	03/31/2001	CLR	---	N	N	
C05.011.157A	1N1171-4	NI	03/31/2001	CLR	---	N	N	
C05.011.158	1N1181-2	NI	03/21/2001	CLR	---	N	N	
C05.011.158A	1N1181-2	NI	03/14/2001	CLR	---	N	N	
C05.011.159	1N1182-3	NI	03/21/2001	CLR	---	N	N	
C05.011.159A	1N1182-3	NI	03/14/2001	CLR	---	N	N	
C05.011.160	1N1182-4	NI	03/21/2001	CLR	---	N	N	
C05.011.160A	1N1182-4	NI	03/21/2001	CLR	---	N	N	
C05.011.161	1N1182-2	NI	03/21/2001	CLR	---	N	N	
C05.011.161A	1N1182-2	NI	03/14/2001	CLR	---	N	N	
C05.021.083	1NV1FW174-10	NV	04/02/2001	CLR	---	N	N	
C05.021.083A	1NV1FW174-10	NV	04/02/2001	CLR	---	N	N	
C05.021.084	1NV1FW175-33	NV	03/06/2001	CLR	---	N	N	

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C05.021.084A	1NV1FW175-33	NV	03/06/2001	CLR	---	N	N	
C05.021.085	1NV1FW175-29	NV	03/06/2001	REC	85.61%	Y	Y	SEE REQUEST FOR RELIEF 01-007
C05.021.085A	1NV1FW175-29	NV	03/06/2001	CLR	---	N	N	
C05.021.086	1NV1FW175-18	NV	03/06/2001	CLR	---	N	N	
C05.021.086A	1NV1FW175-18	NV	03/06/2001	CLR	---	N	N	
C05.021.087	1NV1FW175-31	NV	03/06/2001	CLR	---	N	N	
C05.021.087A	1NV1FW175-31	NV	03/06/2001	CLR	---	N	N	
C05.021.088	1NV1FW182-14	NV	04/03/2001	CLR	---	N	N	
C05.021.088A	1NV1FW182-14	NV	04/03/2001	CLR	---	N	N	
C05.021.089	1NV1FW182-13	NV	03/07/2001	CLR	---	N	N	
C05.021.089A	1NV1FW182-13	NV	03/07/2001	CLR	---	N	N	
C05.021.090	1NV1FW182-9	NV	03/07/2001	CLR	---	N	N	
C05.021.090A	1NV1FW182-9	NV	03/07/2001	CLR	---	N	N	
C05.030.006	1NI251-14	NI	03/16/2001	CLR	---	N	N	
C05.030.007	1NI254-4	NI	03/16/2001	CLR	---	N	N	
C05.030.008	1NI254-19	NI	03/16/2001	CLR	---	N	N	
C05.030.009	1NI258-1	NI	03/16/2001	REC	---	N	N	
C05.030.010	1NI264A-11	NI	03/21/2001	CLR	---	N	N	
C05.030.011	1NI36-3	NI	04/02/2001	CLR	---	N	N	
C05.030.012	1NI1F-50	NI	03/07/2001	CLR	---	N	N	
C05.030.013	1NI1F-307	NI	04/01/2001	CLR	---	N	N	
C05.030.014	1NI1F-308	NI	04/01/2001	CLR	---	N	N	
C05.051.003	1CA1F-948	CA	04/04/2001	REC	---	Y	N	
C05.051.003A	1CA1F-948	CA	04/04/2001	CLR	---	N	N	
C05.051.014	1CAP306-1	CA	04/01/2001	CLR	---	N	N	
C05.051.014A	1CAP306-1	CA	04/04/2001	CLR	---	N	N	
C05.051.060	1CF1F-482	CF	04/04/2001	REC	---	Y	N	
C05.051.060A	1CF1F-482	CF	04/04/2001	CLR	---	N	N	
C05.051.200	1SM1F19-1	SM	04/04/2001	REC	---	Y	N	
C05.051.200A	1SM1F19-1	SM	04/04/2001	CLR	---	N	N	
C05.051.211	1SM1F-2B	SM	03/25/2001	CLR	---	N	N	
C05.051.211A	1SM1F-2B	SM	03/23/2001	CLR	---	N	N	
C05.051.212	1SM1F-3B	SM	03/25/2001	CLR	---	N	N	
C05.051.212A	1SM1F-3B	SM	03/23/2001	CLR	---	N	N	
C05.051.217	1SM1F-3A	SM	03/25/2001	CLR	---	N	N	
C05.051.217A	1SM1F-3A	SM	03/23/2001	CLR	---	N	N	

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D01.020.028	1-MCA-CA-44	CA	03/09/2001	CLR	---	N	N	
D01.020.032	1-MCA-CA-65	CA	03/09/2001	CLR	---	N	N	
D01.020.033	1-MCA-CA-8	CA	04/02/2001	CLR	---	N	N	
D01.020.034	1-MCA-CA-9	CA	04/02/2001	CLR	---	N	N	
D01.020.047	1-MCA-KC-2134	KC	03/28/2001	CLR	---	N	N	
F01.010.022C	1-MCR-NC-550	NC	03/30/2001	CLR	---	N	N	
F01.010.023A	1-MCR-NC-885	NC	03/16/2001	CLR	---	N	N	
F01.010.024A	1-MCR-NC-890	NC	03/16/2001	CLR	---	N	N	
F01.010.025C	1-MCR-NC-891	NC	03/16/2001	CLR	---	N	N	
F01.010.056C	1-MCR-ND-514	ND	03/18/2001	CLR	---	N	N	
F01.010.119B	1-MCR-NI-730	NI	03/18/2001	CLR	---	N	N	
F01.010.120C	1-MCR-NI-733	NI	03/16/2001	CLR	---	N	N	
F01.010.121C	1-MCR-NI-858	NI	03/16/2001	CLR	---	N	N	
F01.010.122C	1-MCR-NI-913	NI	03/16/2001	CLR	---	N	N	
F01.010.155B	1-MCR-NV-859	NV	03/18/2001	CLR	---	N	N	
F01.010.156B	1-MCR-NV-895	NV	03/18/2001	CLR	---	N	N	
F01.020.005C	1-MCR-CA-397	CA	03/18/2001	CLR	---	N	N	
F01.020.013C	1-MCA-CA-468	CA	03/10/2001	CLR	---	N	N	
F01.020.055A	1-MCA-CF-205	CF	03/10/2001	CLR	---	N	N	
F01.020.057C	1-MCR-CF-400	CF	03/17/2001	CLR	---	N	N	
F01.020.102C	1-MCA-FW-H10	FW	03/14/2001	CLR	---	N	N	
F01.020.104A	1-MCA-FW-H11	FW	03/14/2001	CLR	---	N	N	
F01.020.105C	1-MCA-FW-H111	FW	03/29/2001	CLR	---	N	N	
F01.020.106A	1-MCA-FW-H127	FW	03/09/2001	CLR	---	N	N	
F01.020.112A	1-MCA-FW-H114	FW	03/15/2001	CLR	---	N	N	
F01.020.113A	1-MCA-FW-H115	FW	03/14/2001	CLR	---	N	N	
F01.020.115B	1-MCA-FW-H2	FW	03/14/2001	CLR	---	N	N	
F01.020.118C	1-MCA-FW-H122	FW	03/14/2001	CLR	---	N	N	
F01.020.119C	1-MCA-FW-H110	FW	03/14/2001	CLR	---	N	N	
F01.020.161A	1-MCA-ND-079	ND	03/15/2001	CLR	---	N	N	
F01.020.175A	1-MCA-ND-302	ND	03/14/2001	CLR	---	N	N	
F01.020.176C	1-MCA-ND-304	ND	03/14/2001	CLR	---	N	N	
F01.020.177A	1-MCA-ND-330	ND	03/15/2001	CLR	---	N	N	
F01.020.178C	1-MCA-ND-331	ND	03/15/2001	CLR	---	N	N	
F01.020.229A	1-MCR-NI-788	NI	03/29/2001	REC	---	N	N	
F01.020.230A	1-MCR-NI-823	NI	03/17/2001	CLR	---	N	N	

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F01.020.231B	1-MCR-NI-826	NI	03/17/2001	CLR	---	N	N	
F01.020.232A	1-MCR-NI-853	NI	03/18/2001	CLR	---	N	N	
F01.020.233C	1-MCR-NI-895	NI	03/17/2001	CLR	---	N	N	
F01.020.234B	1-MCR-NI-898	NI	03/17/2001	CLR	---	N	N	
F01.020.274A	1-MCR-NS-659	NS	03/22/2001	REC	---	N	N	
F01.020.275A	1-MCR-NS-679	NS	03/22/2001	CLR	---	N	N	
F01.020.276A	1-MCR-NS-709	NS	03/22/2001	CLR	---	N	N	
F01.020.277A	1-MCR-NS-714	NS	03/22/2001	REC	---	N	N	
F01.020.337A	1-MCA-NV-095	NV	03/15/2001	CLR	---	N	N	
F01.020.338A	1-MCA-NV-195	NV	03/09/2001	CLR	---	N	N	
F01.020.339A	1-MCA-NV-197	NV	03/14/2001	CLR	---	N	N	
F01.020.340A	1-MCA-NV-274	NV	03/09/2001	CLR	---	N	N	
F01.020.341A	1-MCA-NV-275	NV	03/09/2001	REC	---	N	N	
F01.020.342A	1-MCA-NV-278	NV	03/09/2001	CLR	---	N	N	
F01.020.343A	1-MCA-NV-280	NV	03/09/2001	REC	---	N	N	
F01.020.344A	1-MCA-NV-281	NV	03/09/2001	REC	---	N	N	
F01.020.552C	1-MCA-SM-015	SM	03/10/2001	REC	---	N	N	
F01.020.560A	1-MCA-SM-109	SM	03/10/2001	CLR	---	N	N	
F01.020.561A	1-MCA-SM-140	SM	03/10/2001	CLR	---	N	N	
F01.020.655B	1-MCR-VQ-541	VQ	03/19/2001	CLR	---	N	N	
F01.030.021A	1-MCA-CA-8	CA	04/02/2001	CLR	---	N	N	
F01.030.022A	1-MCA-CA-9	CA	04/02/2001	CLR	---	N	N	
F01.030.023A	1-MCA-CA-44	CA	03/31/2001	CLR	---	N	N	
F01.030.024A	1-MCA-CA-65	CA	03/31/2001	REC	---	N	N	
F01.030.174B	1-MCA-RN-1177	RN	03/09/2001	CLR	---	N	N	
F01.030.175B	1-MCA-RN-1559	RN	03/15/2001	CLR	---	N	N	
F01.030.176B	1-MCA-RN-1301	RN	03/09/2001	REC	---	N	N	
F01.030.177B	1-MCA-RN-1548	RN	03/09/2001	CLR	---	N	N	
F01.030.178B	1-MCA-RN-2475	RN	03/09/2001	CLR	---	N	N	
F01.030.179B	1-MCA-RN-1508	RN	03/15/2001	CLR	---	N	N	
F01.030.180B	1-MCA-RN-2017	RN	03/14/2001	CLR	---	N	N	
F01.030.181B	1-MCA-RN-2346	RN	03/15/2001	CLR	---	N	N	
F01.030.182B	1-MCA-RN-2315	RN	03/28/2001	CLR	---	N	N	
F01.030.184A	1-MCA-RN-H953	RN	03/14/2001	REC	---	N	N	
F01.030.185A	1-MCA-RN-1322	RN	03/15/2001	CLR	---	N	N	
F01.030.186A	1-MCA-RN-2030	RN	03/14/2001	REC	---	N	N	

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F01.030.187A	1-MCA-RN-1343	RN	03/09/2001	CLR	---	N	N	
F01.030.188A	1-MCA-RN-2039	RN	03/09/2001	CLR	---	N	N	
F01.030.189A	1-MCA-RN-H978	RN	03/09/2001	CLR	---	N	N	
F01.030.190A	1-MCA-RN-2023	RN	03/14/2001	CLR	---	N	N	
F01.030.191A	1-MCA-RN-2327	RN	03/09/2001	CLR	---	N	N	
F01.030.192A	1-MCA-RN-2081	RN	04/02/2001	CLR	---	N	N	
F01.030.193A	1-MCA-RN-1075	RN	03/09/2001	CLR	---	N	N	
F01.030.194A	1-MCA-RN-1560	RN	03/09/2001	CLR	---	N	N	
F01.030.195A	1-MCA-RN-2123	RN	03/09/2001	CLR	---	N	N	
F01.030.196A	1-MCA-RN-1314	RN	03/09/2001	CLR	---	N	N	
F01.030.197A	1-MCA-RN-2341	RN	03/09/2001	REC	---	N	N	PIP M-01-981
F01.030.198A	1-MCA-RN-2339	RN	03/09/2001	REC	---	N	N	
F01.030.199A	1-MCA-RN-H993	RN	03/14/2001	CLR	---	N	N	
F01.030.200A	1-MCA-RN-1105	RN	03/09/2001	CLR	---	N	N	
F01.030.201A	1-MCA-RN-2518	RN	03/15/2001	CLR	---	N	N	
F01.030.202A	1-MCA-RN-2718	RN	03/09/2001	CLR	---	N	N	
F01.030.203C	1-MCA-RN-2335	RN	03/09/2001	CLR	---	N	N	
F01.030.204C	1-MCA-RN-2468	RN	03/14/2001	CLR	---	N	N	
F01.030.205C	1-MCA-RN-1302	RN	03/21/2001	CLR	---	N	N	
F01.040.006	1SGC-LATERALS		03/15/2001	CLR	---	N	N	
F01.040.015	1SWIF-SUP		04/04/2001	CLR	---	N	N	PIP M-01-1144
F01.040.033	1VGTK-SUP-1A1		03/14/2001	CLR	---	N	N	
F01.040.034	1WNP-SUP-1B		03/14/2001	CLR	---	N	N	
F01.040.035	1DG-SUP-1A		03/15/2001	CLR	---	N	N	
F01.040.036	1LDT-SUP-1A		03/14/2001	CLR	---	N	N	
F01.040.039	1LDST-SUP-1A		03/21/2001	CLR	---	N	N	
F01.040.040	1CAP-TD-SUP		03/15/2001	CLR	---	N	N	
G03.001.001	1NC-72-1		03/23/2001	CLR	---	N	N	
G03.001.001A	1NC-72-1		03/22/2001	CLR	---	N	N	
G03.001.002	1NC1F-107		03/23/2001	REC	60.85%	Y	N	NO REQUEST FOR RELIEF REQUIRED FOR AUGUMENTED EXAMS
G03.001.002A	1NC1F-107		03/22/2001	CLR	---	N	N	
G03.001.003	1NC-73-1		03/23/2001	CLR	---	N	N	
G03.001.003A	1NC-73-1		03/22/2001	CLR	---	N	N	

5.2 Limited examinations (i.e., 90% or less of the required examination coverage obtained) identified during Outage 7/EOC 14 are shown below. In addition stainless steel welds not meeting coverage requirements for single sided examinations conducted in accordance with Appendix VIII and 50.55a (b)(2)(xv)(A) are shown below. A Request for Relief will be submitted to the NRC for approval. See Section 9.0 of this report for additional information.

<u><i>Item Number</i></u>	<u><i>Request for Relief Serial Number</i></u>
B01.011.003	01-006
B01.012.007	01-006
B01.012.008	01-006
B01.012.009	01-006
B01.021.002	01-006
B01.030.002	01-006
B03.110.004	01-007
B05.070.005	01-007
B05.070.006	01-007
B08.020.001A	01-007
B09.011.007	01-007
B09.011.008	01-007
B09.011.061	01-007
B09.011.069	01-007
B09.011.074	01-007
B09.011.075	01-007
B09.011.207	01-007
B09.011.219	01-007
B09.011.228	01-007
C02.021.008	01-007

<b><u>Item Number</u></b>	<b><u>Request for Relief Serial Number</u></b>
C01.020.074	98-002 & 98-003
C01.020.075	98-002 & 98-003
C01.030.024	98-002 & 98-003
C01.030.025	98-002 & 98-003
C05.011.109	01-007
C05.011.113	01-007
C05.011.120	01-007
C05.011.129	01-007
C05.011.152	01-007
C05.021.085	01-007

**6.0 Reportable Indications**

Outage 7 /EOC 14 had no reportable indications.

## **7.0 Personnel, Equipment and Material Certifications**

All personnel who performed or evaluated the results of inservice inspections from November 6, 1999 to April 17, 2001 at McGuire Nuclear Station, Unit 1, were certified in accordance with the requirements of the 1989 Edition of ASME Section XI with no addenda including Appendix VII for ultrasonic inspections. In addition, ultrasonic examiners were qualified in accordance with ASME Section XI, Appendix VIII, and 1995 Edition with the 1996 Addenda through the Performance Demonstration Initiative (PDI) for similar metal piping welds and reactor vessel. The appropriate certification records for each inspector are on file at McGuire Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina. The certification records for Framatome ANP inspectors are on file at the Framatome ANP Office 155 Mill Ridge Road, Lynchburg , Va.

Records of periodic calibration of inspection equipment are on file at McGuire Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina. Records of periodic calibration of Framatome inspection equipment are on file at the Framatome ANP Office 155 Mill Ridge Road, Lynchburg, Va.

Records of materials used, (i.e., NDE consumables) are on file at McGuire Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

## **8.0 Corrective Action**

Three corrective action item's were identified during examinations performed in Outage 7 /EOC 14.

- (1) PIP M-01-981
- (2) PIP M-01-1144
- (3) PIP G-01-0168