REGIS T. REPKO
Vice President
McGuire Nuclear Station

Duke Energy
MG01VP / 12700 Hagers Ferry Rd.
Huntersville, NC 28078

980-875-4111
980-875-4809 fax
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January 6, 2010

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

Subject: Duke Energy Carolinas, LLC (Duke)
McGuire Nuclear Station
Docket Number 50-370
Inservice Inspection Report
Unit 2, End of Cycle 19 Refueling Outage

In accordance with ASME Section XI, attached is the Inservice Inspection Report for the end of cycle 19 (EOC-19) refueling outage for McGuire Nuclear Station, Unit 2. This was the second outage of the Second Inspection Period of the Third Ten-Year Interval.

No reportable indications were identified during this report period. Section 4.4 of the report lists the limited examination item numbers.

Questions regarding this submittal should be directed to Kay L. Crane at (980) 875-4306.

Regis T. Repko

Attachment

A047
NRR

xc (with attachment):

L.A. Reyes
Administrator, Region II
U.S. Nuclear Regulatory Commission
Sam Nunn Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

J.B. Brady
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
McGuire Nuclear Station

J.H. Thompson. (addressee only)
NRC Project Manager
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Mail Stop O-8 G9A
Rockville MD 20852-2738

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Energy Carolinas, 526 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)

2. Plant: McGuire Nuclear Station, 12700 Hager's Ferry Road Huntersville, N.C. 28078
(Name and Address of Plant)

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

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

7. Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
	See Section 1.1 in the Attached Report			

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8^1/_2$ in. x 11 in., (2) information in items 1 through 6 on this 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.

Total number of pages contained in this report 208

8. Examination Dates April 14, 2008 to October 10, 2009

9. Inspection Period Identification: Second Period

10. Inspection Interval Identification: Third Interval

11. Applicable Edition of Section XI 1998 Addenda 2000

12. Date / Revision of Inspection Plan: June 20, 2006 / Revision 2

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Sections 2.0, 3.0 and 6.0

14. Abstract of Results of Examinations and Tests. See Section 4.0 and 6.0

15. Abstract of Corrective Measures. See Subsection 4.3

We certify that a) the statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

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

Date 1/5/10 Signed Duke Energy Carolina's. Owner By

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina employed by * HSBCT have inspected the components described in this Owner's Report during the period April 14, 2008 to October 10, 2009 and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

Jerome F. Swan Commissions N.C. 1524 I,N
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-5-2010

* Hartford Steam Boiler of Connecticut
200 Ashford Center North
Suite 205
Atlanta, GA. 30338-4860
(800) 417-3721
www.hsbct.com

OWNER'S REPORT FOR INSERVICE INSPECTIONS

MCGUIRE UNIT 2

2009 REFUELING OUTAGE 4 / EOC 19 (Third Interval)

Plant Location: McGuire Nuclear Station
12700 Hager's Ferry Road
Huntersville, North Carolina 28078 - 9340

NRC Docket No. 50-370

National Board No. 84

Commercial Service Date: March 1, 1984

Document Completion Date: 1/5/10

Owner: Duke Energy Carolinas
526 South Church Street
Charlotte, N.C. 28201-1006

Revision 0

Prepared By: Gary Underwood Date 12-08-2009

Reviewed By: Gary D Gunlows Date 12-08-2009

Approved By: [signature] Date 01-05-2010

DISTRIBUTION LIST

1. Duke Energy Carolinas
   Nuclear Technical Services Division
   Section XI Inspection Program Section

2. McGuire
   Inspection Services
   (ISI Coordinator)

3. NRC Document Control Desk

4. HSBCT (AIA)
   c/o ANII at McGuire

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

TABLE OF CONTENTS

1.0 General Information

This report describes the Inservice Inspection of Duke Energy Carolina's McGuire Nuclear Station Unit 2 during Outage 4 / EOC19. This is the second outage of the Second Inspection Period of the Third Ten-Year Interval. ASME Section XI, 1998 Edition with the 2000 Addenda, was the governing Code for selection and performance of the ISI examinations.

Included in this report are the inspection status for each examination category, the final inservice inspection plan, the inspection results for each item examined, and corrective action(s) taken when reportable conditions were found. In addition, there is an Owner's Report for the Repair / Replacement 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	Rotterdam	30664	NC-201819	--
Pressurizer	Westinghouse	1491	NC-201818	W10285
Steam Generator 2A	BWI	7700-02	NC-302674	159
Steam Generator 2B	BWI	7700-04	NC-302675	161
Steam Generator 2C	BWI	7700-01	NC-302676	158
Steam Generator 2D	BWI	7700-03	NC-302677	160
Centrifugal Charging Pump	Pacific Pumps	2A - 48584 2B - 48585	N/A	25 28
Containment Spray Heat Exchanger	Delta Southern Co. Joseph Oat & Sons, Inc.	2A-35005-73-3 (2B) 2514	NC-234203 NC-201822	3396 5765
Excess Letdown Heat Exchanger	Westinghouse	1810	NC-234264	1555
Letdown Heat Exchanger	Joseph Oat & Sons, Inc.	2049-2B	NC-201842	553
Reciprocating Charging Pump	Union Pump Co.	N7210318-604	N/A	N/A

1.1 Identification Numbers (Continued)

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Coolant Pump	Westinghouse	2A 5-114E841G02 2B 6-114E841G02 2C 7-114E841G02 2D 8-114E841G02	N/A	N/A
Reciprocating Charging Pump Accumulator	Metal Bellows Company	74730-002	N/A	002
Reciprocating Charging Pump Suction Stabilizer	Richmond Engineering Supply Co.	N-2409.20	N/A	75220
Residual Heat Removal Heat Exchanger	Joseph Oat & Sons, Inc.	2A 2046-2C 2B 2046-2D	NC-169800 NC-201823	637 638
Safety Injection Pump	Pacific Pumps	2A 49357 2B 49358	N/A	130 131
Regenerative Heat Exchanger	Joseph Oat & Sons, Inc.	2047-2B	NC-201817	628 629 630
Seal Water Heat Exchanger	Atlas Industrial Manufacturing Company	1767	NC 201827	1549
Seal Water Injection Filter	AMF Cuno	2A - 20 2B - 22	N/A	4364 4365
Main Steam Supply to Auxiliary Equipment System	Duke Power Co.	SA	N/A	62
Containment Air Release and Addition System	Duke Power Co.	VQ	N/A	56
Main Steam System	Duke Power Co.	SM	N/A	70
Main Steam Vent to Atmosphere System	Duke Power Co.	SV	N/A	67
Reactor Coolant System	Duke Power Co.	NC	N/A	82

1.1 Identification Numbers (Continued)

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Liquid Waste Recycle System	Duke Power Co.	WL	N/A	76
Refueling Water System	Duke Power Co.	FW	N/A	54
Auxiliary Feedwater System	Duke Power Co.	CA	N/A	73
Residual Heat Removal System	Duke Power Co.	ND	N/A	63
Nuclear Service Water System	Duke Power Co.	RN	N/A	60
Chemical & Volume Control System	Duke Power Co.	NV	N/A	80
Component Cooling System	Duke Power Co.	KC	N/A	78
Main Feedwater System	Duke Power Co.	CF	N/A	61
Containment Spray System	Duke Power Co.	NS	N/A	69
Containment Ventilation Cooling Water System	Duke Power Co.	RV	N/A	72
Safety Injection System	Duke Power Co.	NI	N/A	83
Diesel Generator Engine Cooling Water System	Duke Power Co.	KD	N/A	47
Spent Fuel Cooling System	Duke Power Co.	KF	N/A	81
Diesel Generator Engine Lube Oil System	Duke Power Co.	LD	N/A	51
Unit 2	Duke Power Co.	N/A	N/A	84

1.2 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections during the time frame bracketed by the examination dates shown on the NIS-1 Form were certified in accordance with the requirements of the 1998 Edition of ASME Section XI with the 2000 addenda including Appendix VII for ultrasonic inspections. In addition, ultrasonic examiners were qualified in accordance with ASME Section XI, Appendix VIII, and the 1998 Edition with the 2000 Addenda through the Performance Demonstration Initiative (PDI) for Supplements 2, 3, 4, 6, 8, and 10.

The appropriate certification records for each inspector, calibration records for inspection equipment, and records of materials used (i.e. NDE consumables) are on file at McGuire Nuclear Station or copies may be obtained by contacting Duke Energy Carolina's Corporate Office in Charlotte, North Carolina.

The copies of the certification records for the D. Z. Atlantic Group and the U.R.S. Washington Group International inspectors can be obtained by contacting Duke Energy Carolina's Corporate Office in Charlotte, North Carolina.

1.3 Reference Documents

The following reference documents apply to the inservice inspections performed during this report period. A copy may be obtained by contacting the ISI Plan Manager at Duke Energy Carolina's Corporate Office in Charlotte, North Carolina:

1. Code Case N-460 (Applicable to items in this report where less than 100% coverage of the required weld examination volume was achieved.) These items are identified on Inspection Results that are located in Section 4.0 of this report.

2. Code Case N-700 (Applicable to Category B-K Welded Attachments)

3. Code Case N-706 (Applicable to Category C-A Residual Heat Removal Heat Exchangers 2A and 2B and the Regenerative Heat Exchanger)

4. Problem Investigation Process M-09-7042 (Covers documentation and tracking and completion of request for relief on weld limitations for EOC-19).

5. RFR 03-002 (Class 1, 2 and 3 snubber examination under station technical specification)

6. RFR 01-005 (Risk Informed Inservice Inspection Program Submittal)

7. RFR 01-008 (Risk Informed ISI Alternative to Use VT-2 Instead of Volumetric Examination of Socket Welds)

8. Code Case N-722 Additional examinations for PWR pressure retaining welds in Class 1 components fabricated with alloy 600 / 82 / 182 materials (used this outage during volumetric examinations)

1.4 Augmented and Elective Examinations

Augmented and elective examination information found within this Inservice Inspection Report is not required by the ASME Section XI Code; therefore, it is exempt from ANII review, verification, and / or record certification.

1.5 Responsible Inspection Agency

Hartford Steam Boiler of Connecticut (HSBCT) is responsible for the third party inspections required by ASME Section XI.

Authorized Nuclear Inservice Inspector(s)

Name:	J.F. Swan
Employer:	HSBCT
Business Address:	200 Ashford Center North Suite 205 Atlanta, GA 30338-4860 (800) 417-3721 www.hsbct.com

2.0 Third Ten-Year Interval Inspection Status

The completion status of inspections required by the 1998 Edition of ASME Section XI with the 2000 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 for Class 1, 2 and 3 Component Supports. Augmented, Elective, and Risk Informed Inspections are also included.

During the McGuire Third 10 Year Interval, piping welds will be examined under the Risk Informed Inservice Inspection Program developed in accordance with methodology contained in the Westinghouse Owner's Group (WOG) Topical Report, WCAP-14572, Revision 1-NP-A. Request for Relief 01-005 was submitted to the NRC seeking approval to incorporate the Risk Informed Program into the Third 10 Year Interval ISI Plan for McGuire Unit 2. The NRC approved use of this program per SER dated June 12, 2002. Previous code examination Categories B-F, B-J, C-F-1, and C-F-2 will now be combined under the new Risk Informed Category R-A.

Class 1 Inspections

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*[1]Deferral Allowed*
B-A	Pressure Retaining Welds in Reactor Vessel	15	3	20.00%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	5	1	20.00%	No
B-D	Full Penetration Welded Nozzles in Vessels Inspection Program B	36	18	50%	Partial
B-F	Pressure Retaining Dissimilar Metal Welds in Vessel Nozzles	Reference Risk Informed Program R1. Items			
B-G-1	Pressure Retaining Bolting Greater than 2" in Diameter	241	175	72.61%	Yes
B-G-2	Pressure Retaining Bolting 2" and Less in Diameter	22	15	68.18%	No

Class 1 Inspections (Continued)

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*[1]Deferral Allowed*
B-J	Pressure Retaining Welds in Piping	Reference Risk Informed Program R1. Items			
B-K	Welded Attachments for Vessels, Piping, Pumps and Valves	*5 (Code Case N-700)	4	*80%	No
B-L-1	Pressure Retaining Welds in Pump Casings	N/A	N/A	N/A	Yes
B-L-2	Pump Casings	1	0	00.00%	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	9	4	44.44%	Yes
B-N-1	Interior of Reactor Vessel	3	2	66.66%	No
B-N-2	Welded Core Support Structures and Interior Attachments to Reactor Vessel	2	0	00.00%	Yes
B-N-3	Removable Core Support Structures	1	0	00.00%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	3	1	33.33%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	**See Note below**			
F-A F1.10.	Class 1 Component Supports	58	34	58.62%	No

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

*** Beginning with EOC-19, Code Case N-700 has been incorporated for Category B-K. This reduced the required number of exams to five. The impact on percentages for this category is only due to implementation of the code case during the interval.**

[1] Deferral of inspection to the end of the interval as allowed by ASME Section XI Table IWB 2500-1. These examination categories are exempt from percentage requirements per IWB-2412 (a), Inspection Program B.

Class 2 Inspections

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*Deferral Allowed*
C-A	Pressure Retaining Welds in Pressure Vessels	30 (Code Case N-706)	*5	*16.66%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	11	7	63.63%	No
C-C	Welded Attachments for Vessels, Piping, Pumps and Valves	17	9	52.94%	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	Reference Risk Informed Program R1. Items			
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	Reference Risk Informed Program R1. Items			
C-G	Pressure Retaining Welds in Pumps and Valves	8	4	50%	No
C-H	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT			
F-A F1.20.	Class 2 Component Supports	230	135	58.69%	No

***(Category C-A) seven (7) welds were scheduled for examination in period one and three (3) were examined. The four (4) that were not examined were welds in the Regenerative Heat Exchanger. In previous intervals, relief from examination of these welds was granted based on hardship associated with radiation exposure. A similar relief request may be submitted for this interval or, alternatively, these welds may be eliminated from scope using Code Case N-706, this applied through EOC-18. Starting with EOC-19, Code Case N-706 has been incorporated; this covers the**

Regenerative and Residual Heat Removal Heat Exchangers. Percentages for this category changed with the implementation of Code Case N-706.

Additional Component Support Examinations Class 1, 2 and 3

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*Deferral Allowed*
F-A F1.40.	Supports other than Piping Supports Class 1, 2 & 3	42	28	66.66%	No
F-A F1.50.	Component Supports Snubbers Class 1, 2 & 3			*	No

***Inspections to be performed per Relief Request 03-002**

Risk Informed Inservice Inspection Program Class 1 and 2

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*Deferral Allowed*
R-A R1.11.	Piping Examinations Class 1 and 2	91	49	53.84%	No

Weld Overlay Section XI Appendix Q

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*Deferral Allowed*
Q1.1	Weld Overlay	No exams outage EOC-19			No

Augmented / Elective Inspections

Summary Number	*Description*	*Percentage Complete*
G1.1	Reactor Coolant Pump Flywheels	No examinations required for Outage 4/EOC-19
G2.1	RPV Closure Head Studs and Nuts per Nuclear Guide 1.65	100% of Outage 4/EOC-19 Requirements Met
G3.1	Pipe Rupture Protection	100% of Outage 4/EOC-19 Requirements Met
G5.1	RPV Head Penetration Nozzles	No examinations required for Outage 4/EOC-19
G5.2	RPV Vent Line	No examinations required for Outage 4/EOC-19

Augmented / Elective Inspections Continued

Summary Number	*Description*	*Percentage Complete*
G6.2	Pressurizer Manway	100% of Outage 4/EOC-19 Requirements Met
B15.80	Reactor Vessel BMI Nozzles	100% of Outage 4/EOC-19 Requirements Met
B4.10	Reactor Vessel Head	100% of Outage 4/EOC-19 Requirements Met
B4.20	Reactor Vessel Head Pen and Reactor Vessel Head Vent	No examinations required for Outage 4/EOC-19

3.0 Final Inservice Inspection Plan

The final Inservice Inspection Plan shown in this section lists all ASME Section XI Class 1, Class 2, Class 3 Augmented and Risk Informed examinations credited for this report period.

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

SUMMARY 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
COMPONENT ID	=	Unique Identification Number
CLASS / SYSTEM	=	Component System Identification
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
THICK / NPS	=	Diameter / Thickness
CAL BLOCKS	=	Calibration Block Number
COMMENTS	=	General and / or Detail Description

DUKE ENERGY
NUCLEAR TECHNICAL SERVICES
Inservice Inspection Database Management System
Plan Report
McGuire 2, 3rd Interval, Outage 4 (EOC-19)

This report includes all changes through addendum2MNS-060

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
M2.B15.80.0001	2-RPV-BMI-NOZZLES								
	Class 1 NC	MP\0\A\7150-165	NDE-68	VT-2					—
			Inconel Transition Weld to Stainless Steel Tube						
			Bare Metal Visual Inspection by VT-2 qualified inspector of the BMI Nozzles per the requiements of Code Case N-722 (Item B15.80). The bare metal visual inspection shall include an inspection of the bottom head and Alloy 600 transition weld between the Alloy 600 tube and the stainless steel tube. This exam added per QA-513J ER-MNS-09-01. This exam should be scheduled every other outage begining with EOC-19. Reference Footnote 4 of Code Case N-722 for type of examination. Any questions concerning this exam should be directed to the Materials and NDE Services Group (Chris Cruz or Jody Suping).						
M2.B4.10.0002	2RPV-Head-Multiple								
	Class 1	MCFD 2553-01.00 MCM 2201.01-0021 001	NDE-68	VT-2					—
			Each refueling outage that the full bare metal visual (M2.B4.10.0001) is not performed. If EDY <8 and no flaws unacceptable for continued service have been detected, the reexamination frequency of the full bare metal visual may be extended to every third refueling outage or 5 calendar years, whichever is less, provided an IWA- 2212 VT-2 visual examination of the head is performed under the insulation through multiple access points in outages that the full bare metal VE is not completed. Provided EDY remains less than 8, the next full bare metal visual will be due in 2EOC20. Therefore, IWA-2212 VT-2 visuals shall be performed in 2EOC19 and continue into every outage that the full bare metal visual is not performed. EDY Calculation will continue to be updated and if EDY greater than or equal to 8 these IWA-2212 VT-2 visuals will no longer take place, because a bare metal visual per CC N-729-1 will be required every refueling outage. Schedule Flexibility: Time between inspections may be shortened, but not lengthened. For additional information reference QA-513J (ER-MNS-09-05) or contact Rachel Doss in the Materials and NDE Services Section, Nuclear Technical Services Division. Acceptance criteria specified in ASME Code Case N-729-1 subject to conditions in 10CFR 50.55a (g)(6)(ii)(D)(2) through (6). Relevant conditions for the purpose of the VE shall include areas of corrosion, boric acid deposits, discoloration, and other evidence of nozzle leakage. Once a licensee implements this requirement, the First Revised NRC Order EA-03-009 no longer applies and is deemed to be withdrawn.						
M2.G2.1.0001	2RPV-664-31-12								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.001
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category AUG									
M2.G2.1.0002	2RPV-664-32-12								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.002
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0003	2RPV-664-31-13								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.003
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0004	2RPV-664-32-13								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.004
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0005	2RPV-664-31-14								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.005
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0006	2RPV-664-32-14								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.006
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0007	2RPV-664-31-25								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.007
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
M2.G2.1.0008	2RPV-664-32-25								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.008
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0009	2RPV-664-31-26								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.009
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0010	2RPV-664-32-26								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.010
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0011	2RPV-664-31-27								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.011
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0012	2RPV-664-32-27								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.012
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0013	2RPV-664-31-29								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.013
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
M2.G2.1.0014	2RPV-664-32-29								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.014
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0015	2RPV-664-31-30								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.015
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0016	2RPV-664-32-30								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.016
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0017	2RPV-664-31-31								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		64.560 / 7.000		G02.001.017
			REACTOR VESSEL CLOSURE HEAD STUD. INSPECT PER REGULATORY GUIDE 1.65. STUD TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G2.1.0018	2RPV-664-32-31								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-106	NDE-25	MT	CS		1.770 / 10.540		G02.001.018
			REACTOR VESSEL CLOSURE HEAD NUT. INSPECT PER REGULATORY GUIDE 1.65. NUT TO BE REMOVED FROM REACTOR VESSEL CLOSURE HEAD FOR MT EXAMINATION. EVALUATE EXAMINATION RESULTS TO NDE-25, APPENDIX B (SECTION III NB-2545).						
M2.G3.1.0007	2NC2FW24-2								
	Class 1 NC	MCFI-2NC24	NDE-35	PT	SS		1.000 / 10.000		G03.001.007, G03.001.007A
Circumferential		MC-ISIN3-2553-01.00							
			Pipe to Elbow AUGMENTED EXAMINATION. REFERENCE DOCUMENT SRG-78-001 REV.2 (DISTRIBUTION CODE MADM-257).						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
M2.G3.1.0007	2NC2FW24-2								
	Class 1 NC	MCFI-2NC24	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2-C	G03.001.007,
		MC-ISIN3-2553-01.00						PDI-UT-2A-M	G03.001.007A
Circumferential									
			Pipe to Elbow						
			AUGMENTED EXAMINATION. REFERENCE DOCUMENT SRG-78-001 REV.2 (DISTRIBUTION CODE MADM-257).						
M2.G3.1.0008	2NC2FW24-3								
	Class 1 NC	MCFI-2NC24	NDE-35	PT	SS		1.000 / 10.000		G03.001.008,
Circumferential		MC-ISIN3-2553-01.00							G03.001.008A
			Elbow to Pipe						
			AUGMENTED EXAMINATION. REFERENCE DOCUMENT SRG-78-001 REV.2 (DISTRIBUTION CODE MADM-257).						
M2.G3.1.0008	2NC2FW24-3								
	Class 1 NC	MCFI-2NC24	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2-C	G03.001.008,
		MC-ISIN3-2553-01.00						PDI-UT-2A-M	G03.001.008A
Circumferential									
			Elbow to Pipe						
			AUGMENTED EXAMINATION. REFERENCE DOCUMENT SRG-78-001 REV.2 (DISTRIBUTION CODE MADM-257).						
M2.G6.2.0001	2PZR-Manway								
	Class 1 NC	MCM 1201.01-140	NDE-68	VT-2					---
			Pressurizer Manway						
			Pressurizer Manway Diaphram Seal Weld. Bare Metal Visual Exam by VT-2 qualified Inspector. Examine the gap between the Pressurizer Manway Cover and Manway for evidence of diaphram plate seal weld leakage. (For responsible Individual, contact J.M. Shuping, Alloy 600 Engineer Nuclear Technical Services). Reference NRC Bulletin 2004-01.						
Category B-D									
M2.B3.110.0003	2PZR-13								
	Class 1 NC	MCM 2201.01-15	NDE-820	UT	CS		2.35 / 15.000	50338	B03.110.003,
									B03.110.004
Circumferential		MCM 2201.01-16							
		MCM 1201.01-0371							
			NOZZLE to HEAD						
			PRESSURIZER SAFETY NOZZLE TO UPPER HEAD. W-Z QUADRANT. Note: Reference Manual MCM 1201.01-0371 shows Nominal Pipe Size for this weld to be 1.90 to 2.50 inches. Actual wall thickness should be verified at examination and ISI Plan Manager shall be notified if thickness is different from what is shown in plan.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-D									
M2.B3.110.0004	2PZR-14								
	Class 1 NC	MCM 2201.01-015	NDE-820	UT	CS		2.35 / 15.000	50338	B03.110.004, B03.110.005
Circumferential		MCM 2201.01-16 MCM 1201.01-0371							
			NOZZLE to HEAD PRESSURIZER SAFETY NOZZLE TO UPPER HEAD. W-X QUADRANT. Note: Reference Manual MCM 1201.01-0371 shows Nominal Pipe Size for this weld to be 1.90 to 2.50 inches. Actual wall thickness should be verified at examination and ISI Plan Manager shall be notified if thickness is different from what is shown in plan.						
M2.B3.110.0005	2PZR-15								
	Class 1 NC	MCM 2201.01-015	NDE-820	UT	CS		2.35 / 15.000	50338	B03.110.005, B03.110.006
Circumferential		MCM 2201.01-16 MCM 1201.01-0371							
			NOZZLE to HEAD PRESSURIZER SAFETY NOZZLE TO UPPER HEAD. X-Y QUADRANT. Note: Reference Manual MCM 1201.01-0371 shows Nominal Pipe Size for this weld to be 1.90 to 2.50 inches. Actual wall thickness should be verified at examination and ISI Plan Manager shall be notified if thickness is different from what is shown in plan.						
M2.B3.120.0003	2PZR-13R								
	Class 1 NC	MCM 2201.01-015	NDE-680	UT	CS		2.35 / 15.000	50237D	B03.120.003
Circumferential		MCM 2201.01-16 MCM 1201.01-0371							
			Nozzle To Head PRESSURIZER SAFETY NOZZLE TO UPPER HEAD. W-Z QUADRANT. (INSIDE RADIUS SECTION) Note: Reference Manual MCM 1201.01-0371 shows Nominal Pipe Size for this weld to be 1.90 to 2.50 inches. Actual wall thickness should be verified at examination and ISI Plan Manager shall be notified if thickness is different from what is shown in plan.						
M2.B3.120.0004	2PZR-14R								
	Class 1 NC	MCM 2201.01-015	NDE-680	UT	CS		2.35 / 15.000	50237D	B03.120.004
Circumferential		MCM 2201.01-16 MCM 1201.01-0371							
			Nozzle To Head PRESSURIZER SAFETY NOZZLE TO UPPER HEAD. W-X QUADRANT. (INSIDE RADIUS SECTION) Note: Reference Manual MCM 1201.01-0371 shows Nominal Pipe Size for this weld to be 1.90 to 2.50 inches. Actual wall thickness should be verified at examination and ISI Plan Manager shall be notified if thickness is different from what is shown in plan.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-D									
M2.B3.120.0005	2PZR-15R								
	Class 1 NC	MCM 2201.01-015	NDE-680	UT	CS		2.35 / 15.000	50237D	B03.120.005
Circumferential		MCM 2201.01-16							
		MCM 1201.01-0371							
			Nozzle To Head						
			PRESSURIZER SAFETY NOZZLE TO UPPER HEAD. X-Y QUADRANT. (INSIDE RADIUS SECTION) Note: Reference Manual MCM 1201.01-0371 shows Nominal Pipe Size for this weld to be 1.90 to 2.50 inches. Actual wall thickness should be verified at examination and ISI Plan Manager shall be notified if thickness is different from what is shown in plan.						
M2.B3.140.0003	2SGB-INLET								
	Class 1 NC	MCM 2201.01-0207	NDE-680	UT	CS		6.500 / 0.000	50235	B03.140.003
Circumferential		MCM 2201.01-0216							
			Nozzle To Head						
			STEAM GENERATOR 2B INLET NOZZLE TO LOWER HEAD. Y1-X1 QUADRANT. (INSIDE RADIUS SECTION).						
M2.B3.140.0004	2SGB-OUTLET								
	Class 1 NC	MCM 2201.01-0207	NDE-680	UT	CS		6.500 / 0.000	50235	B03.140.004
Circumferential		MCM 2201.01-0216							
			Nozzle To Head						
			STEAM GENERATOR 2B OUTLET NOZZLE TO LOWER HEAD. Y2-X1 QUADRANT. (INSIDE RADIUS SECTION).						
Category B-G-1									
M2.B6.10.0001	2RPV-664-32-20								
	Class 1 NC	MCM 2201.01-01	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.020
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0002	2RPV-664-32-21								
	Class 1 NC	MCM 2201.01-01	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.021
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0003	2RPV-664-32-22								
	Class 1 NC	MCM 2201.01-01	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.022
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD NUT.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category B-G-1									
M2.B6.10.0004	2RPV-664-32-23								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.023
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0005	2RPV-664-32-24								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.024
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0006	2RPV-664-32-25								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.025
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0007	2RPV-664-32-26								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.026
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0008	2RPV-664-32-27								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.027
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0009	2RPV-664-32-28								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.028
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0010	2RPV-664-32-29								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.029
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0011	2RPV-664-32-30								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.030
			REACTOR VESSEL CLOSURE HEAD NUT.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category B-G-1									
M2.B6.10.0012	2RPV-664-32-31								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.031
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0018	2RPV-664-32-32								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.032
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0019	2RPV-664-32-33								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.033
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0020	2RPV-664-32-34								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.034
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0021	2RPV-664-32-35								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.035
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0045	2RPV-664-32-10								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.010
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0046	2RPV-664-32-11								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.011
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0047	2RPV-664-32-12								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.012
			REACTOR VESSEL CLOSURE HEAD NUT.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category B-G-1									
M2.B6.10.0048	2RPV-664-32-13								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.013
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0049	2RPV-664-32-14								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.014
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0050	2RPV-664-32-15								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.015
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0051	2RPV-664-32-16								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.016
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0052	2RPV-664-32-17								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.017
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0053	2RPV-664-32-18								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.018
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0054	2RPV-664-32-19								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.770 / 10.540		B06.010.019
			REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.100.0001	2SGA-MW-Y1-X1								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0126	NDE-62	VT-1	CS		*0.000 / 0.000*		B06.100.001
			STEAM GENERATOR 2A PRIMARY INLET MANWAY FLANGE SURFACE. Y1-X1 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.100.0002	2SGA-MW-X1-Y2								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0126	NDE-62	VT-1	CS		0.000 / 0.000		B06.100.002
			STEAM GENERATOR 2A PRIMARY OUTLET MANWAY FLANGE SURFACE. X1-Y2 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						
M2.B6.100.0003	2SGB-MW-Y1-X2								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0127	NDE-62	VT-1	CS		0.000 / 0.000		B06.100.003
			STEAM GENERATOR 2B PRIMARY INLET MANWAY FLANGE SURFACE. Y1-X2 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						
M2.B6.100.0004	2SGB-MW-X2-Y2								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0127	NDE-62	VT-1	CS		0.000 / 0.000		B06.100.004
			STEAM GENERATOR 2B PRIMARY OUTLET MANWAY FLANGE SURFACE. X2-Y2 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						
M2.B6.100.0005	2SGC-MW-Y1-X1								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0126	NDE-62	VT-1	CS		0.000 / 0.000		B06.100.005
			STEAM GENERATOR 2C PRIMARY INLET MANWAY FLANGE SURFACE. Y1-X1 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						
M2.B6.100.0006	2SGC-MW-X1-Y2								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0126	NDE-62	VT-1	CS		0.000 / 0.000		B06.100.006
			STEAM GENERATOR 2C PRIMARY OUTLET MANWAY FLANGE SURFACE. X1-Y2 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						
M2.B6.100.0007	2SGD-MW-Y1-X2								
	Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0127	NDE-62	VT-1	CS		0.000 / 0.000		B06.100.007
			STEAM GENERATOR 2D PRIMARY INLET MANWAY FLANGE SURFACE. Y1-X2 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.100.0008	2SGD-MW-X2-Y2 Class 1 NC	MCM 2201.01-0194 MCM 2201.01-0127	NDE-62 STEAM GENERATOR 2D PRIMARY OUTLET MANWAY FLANGE SURFACE. X2-Y2 QUADRANT. INSPECT WHEN CONNECTION DISASSEMBLED. Examined Outage 1/EOC-16 and reported, other outages show when connection disassembled but will not be reflected in percentage totals.	VT-1	CS		0.000 / 0.000		B06.100.008
M2.B6.30.0010	2RPV-664-31-10 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 REACTOR VESSEL CLOSURE HEAD STUD.	UT	CS		64.560 / 7.000	50501	B06.030.010, B06.030.010A
M2.B6.30.0011	2RPV-664-31-11 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 REACTOR VESSEL CLOSURE HEAD STUD.	UT	CS		64.560 / 7.000	50501	B06.030.011, B06.030.011A
M2.B6.30.0016	2RPV-664-31-12 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 REACTOR VESSEL CLOSURE HEAD STUD.	UT	CS		64.560 / 7.000	50501	B06.030.012, B06.030.012A
M2.B6.30.0017	2RPV-664-31-13 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 REACTOR VESSEL CLOSURE HEAD STUD.	UT	CS		64.560 / 7.000	50501	B06.030.013, B06.030.013A
M2.B6.30.0018	2RPV-664-31-14 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 REACTOR VESSEL CLOSURE HEAD STUD.	UT	CS		64.560 / 7.000	50501	B06.030.014, B06.030.014A
M2.B6.30.0019	2RPV-664-31-15 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 REACTOR VESSEL CLOSURE HEAD STUD.	UT	CS		64.560 / 7.000	50501	B06.030.015, B06.030.015A

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.30.0021	2RPV-664-31-16								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.016, B06.030.016A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0022	2RPV-664-31-17								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.017, B06.030.017A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0035	2RPV-664-31-18								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.018, B06.030.018A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0036	2RPV-664-31-19								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.019, B06.030.019A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0037	2RPV-664-31-20								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.020, B06.030.020A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0038	2RPV-664-31-21								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.021, B06.030.021A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0039	2RPV-664-31-22								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.022, B06.030.022A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.30.0040	2RPV-664-31-23								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.023, B06.030.023A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0041	2RPV-664-31-24								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.024, B06.030.024A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0042	2RPV-664-31-25								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.025, B06.030.025A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0043	2RPV-664-31-26								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.026, B06.030.026A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0044	2RPV-664-31-27								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.027, B06.030.027A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0045	2RPV-664-31-28								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.028, B06.030.028A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0046	2RPV-664-31-29								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.029, B06.030.029A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category B-G-1									
M2.B6.30.0047	2RPV-664-31-30								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.030, B06.030.030A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0048	2RPV-664-31-31								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.031, B06.030.031A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0049	2RPV-664-31-32								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.032, B06.030.032A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0050	2RPV-664-31-33								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.033, B06.030.033A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0051	2RPV-664-31-34								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.034, B06.030.034A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.30.0052	2RPV-664-31-35								
	Class 1 NC	MCM 2201.01-01	PDI-UT-5	UT	CS		64.560 / 7.000	50501	B06.030.035, B06.030.035A
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD STUD.						
M2.B6.50.0003	2RPV-664-33-33								
	Class 1 NC	MCM 2201.01-01	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.033
		MCM 2201.01-0106							
			REACTOR VESSEL CLOSURE HEAD WASHER.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.50.0004	2RPV-664-33-34 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.034
M2.B6.50.0005	2RPV-664-33-35 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.035
M2.B6.50.0014	2RPV-664-33-10 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.010
M2.B6.50.0015	2RPV-664-33-11 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.011
M2.B6.50.0016	2RPV-664-33-12 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.012
M2.B6.50.0017	2RPV-664-33-13 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.013
M2.B6.50.0018	2RPV-664-33-14 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.014
M2.B6.50.0019	2RPV-664-33-15 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.015

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.50.0020	2RPV-664-33-16 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.016
M2.B6.50.0021	2RPV-664-33-17 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.017
M2.B6.50.0022	2RPV-664-33-18 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.018
M2.B6.50.0023	2RPV-664-33-19 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.019
M2.B6.50.0024	2RPV-664-33-20 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.020
M2.B6.50.0025	2RPV-664-33-21 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.021
M2.B6.50.0026	2RPV-664-33-22 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.022
M2.B6.50.0027	2RPV-664-33-23 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62 REACTOR VESSEL CLOSURE HEAD WASHER.	VT-1	CS		1.719 / 10.560		B06.050.023

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description						
			Comments						
Category B-G-1									
M2.B6.50.0028	2RPV-664-33-24								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.024
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0029	2RPV-664-33-25								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.025
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0030	2RPV-664-33-26								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.026
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0031	2RPV-664-33-27								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.027
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0032	2RPV-664-33-28								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.028
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0033	2RPV-664-33-29								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.029
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0034	2RPV-664-33-30								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.030
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0035	2RPV-664-33-31								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.031
			REACTOR VESSEL CLOSURE HEAD WASHER.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-1									
M2.B6.50.0036	2RPV-664-33-32								
	Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		1.719 / 10.560		B06.050.032
			REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.90.0001	2SGA-MW-Y1-X1								
	Class 1 NC	MCM 2201.01-0126 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.001
			STEAM GENERATOR 2A PRIMARY INLET MANWAY BOLTING. 20 STUDS. Y1-X1 QUADRANT. Bolting must be removed to be examined.						
M2.B6.90.0002	2SGA-MW-X1-Y2								
	Class 1 NC	MCM 2201.01-0126 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.002
			STEAM GENERATOR 2A PRIMARY OUTLET MANWAY BOLTING. 20 STUDS. X1-Y2 QUADRANT. Bolting must be removed to be examined.						
M2.B6.90.0003	2SGB-MW-Y1-X2								
	Class 1 NC	MCM 2201.01-0127 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.003
			STEAM GENERATOR 2B PRIMARY INLET MANWAY BOLTING. 20 STUDS. Y1-X2 QUADRANT. Bolting must be removed to be examined.						
M2.B6.90.0004	2SGB-MW-X2-Y2								
	Class 1 NC	MCM 2201.01-0127 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.004
			STEAM GENERATOR 2B PRIMARY OUTLET MANWAY BOLTING. 20 STUDS. X2-Y2 QUADRANT. Bolting must be removed to be examined.						
M2.B6.90.0005	2SGC-MW-Y1-X1								
	Class 1 NC	MCM 2201.01-0126 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.005
			STEAM GENERATOR 2C PRIMARY INLET MANWAY BOLTING. 20 STUDS. Y1-X1 QUADRANT. Bolting must be removed to be examined.						
M2.B6.90.0006	2SGC-MW-X1-Y2								
	Class 1 NC	MCM 2201.01-0126 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.006
			STEAM GENERATOR 2C PRIMARY OUTLET MANWAY BOLTING. 20 STUDS. X1-Y2 QUADRANT. Bolting must be removed to be examined.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category B-G-1									
M2.B6.90.0007	2SGD-MW-Y1-X2								
	Class 1 NC	MCM 2201.01-0127 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.007
			STEAM GENERATOR 2D PRIMARY INLET MANWAY BOLTING. 20 STUDS. Y1-X2 QUADRANT. Bolting must be removed to be examined.						
M2.B6.90.0008	2SGD-MW-X2-Y2								
	Class 1 NC	MCM 2201.01-0127 MCM 2201.01-0172	PDI-UT-4	UT	CS		26.625 / 2.500	7C-015	B06.090.008
			STEAM GENERATOR 2D PRIMARY OUTLET MANWAY BOLTING. 20 STUDS. X2-Y2 QUADRANT. Bolting must be removed to be examined.						
Category B-G-2									
M2.B7.10.0001	2-RPV-CONOSEAL-1								
	Class 1 NC	MCM 2201.01-0109 MCM 2201.01-0003 MC-ISIN3-2553-01.00	NDE-62	VT-1					----
			Conoseal Bolting Port # 1 (R-11) Conoseals. Bolted Connections on the Upper and Lower Conoseal Clamps shown on Enclosure 13.3 of MP/0/A/7150/051. Location for the Conoseals is shown on Enclosure 13.5 of MP/0/A/7150/051 and MCM 2201.01-0003.						
M2.B7.10.0002	2-RPV-CONOSEAL-2								
	Class 1 NC	MCM 2201.01-0109 MCM 2201.01-0003 MC-ISIN3-2553-01.00	NDE-62	VT-1					----
			Conoseal Bolting Port # 2 (L-15) Conoseals. Bolted Connections on the Upper and Lower Conoseal Clamps shown on Enclosure 13.3 of MP/0/A/7150/051. Location for the Conoseals is shown on Enclosure 13.5 of MP/0/A/7150/051 and MCM 2201.01-0003.						
M2.B7.10.0003	2-RPV-CONOSEAL-3								
	Class 1 NC	MCM 2201.01-0109 MCM 2201.01-0003 MC-ISIN3-2553-01.00	NDE-62	VT-1					----
			Conoseal Bolting Port # 3 (E-15) Conoseals. Bolted Connections on the Upper and Lower Conoseal Clamps shown on Enclosure 13.3 of MP/0/A/7150/051. Location for the Conoseals is shown on Enclosure 13.5 of MP/0/A/7150/051 and MCM 2201.01-0003.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-2									
M2.B7.10.0004	2-RPV-CONOSEAL-4								
	Class 1 NC	MCM 2201.01-0109 MCM 2201.01-0003 MC-ISIN3-2553-01.00	NDE-62	VT-1					----
			Conoseal Bolting Port # 4 (A-5) Conoseals. Bolted Connections on the Upper and Lower Conoseal Clamps shown on Enclosure 13.3 of MP/0/A/7150/051. Location for the Conoseals is shown on Enclosure 13.5 of MP/0/A/7150/051 and MCM 2201.01-0003.						
M2.B7.10.0005	2-RPV-CONOSEALS-5								
	Class 1 NC	MCM 2201.01-0109 MCM 2201.01-0003 MC-ISIN3-2553-01.00	NDE-62	VT-1					----
			Conoseal Bolting Port # 5 (L-1) Conoseals. Bolted Connections on the Upper and Lower Conoseal Clamps shown on Enclosure 13.3 of MP/0/A/7150/051. Location for the Conoseals is shown on Enclosure 13.5 of MP/0/A/7150/051 and MCM 2201.01-0003.						
M2.B7.70.0001	2NI-59								
	Class 1 NI	MCFI-2NI18 MC-ISIN3-2562-02.00 MCM 1205.36-0011	NDE-62	VT-1	SS		0.000 / 1.875		B07.070.002C, B07.070.006C
			GROUP 9. 10" ATWOOD-MORRILL CHECK VALVE. INSPECT THE FOLLOWING VALVE IN GROUP 9: 2NI-59.						
M2.B7.70.0013	2NI-181								
	Class 1 NI	MCFI-2NI16 MC-ISIN3-2562-03.01 MCM 1205.00-005-001	NDE-62	VT-1	SS		0.000 / 1.375		B07.070.004D, B07.070.008D
			GROUP 7. 6" CRANE-ALOYCO CHECK VALVE. INSPECT ONE OF THE FOLLOWING VALVES IN GROUP 7: 2NI-126, 2NI-134, 2NI-852, 2NI-853, 2NI-175, 2NI-176, AND 2NI-181.						
Category B-M-2									
M2.B12.50.0011	2NI-60								
	Class 1 NI	MCFI-2NI18 MC-ISIN3-2562-02.00 MCM 1205.00-0009	NDE-64	VT-3	SS		0.000 / 10.000		B12.050.004B
			GROUP 4. 10" ATWOOD-MORRILL CHECK VALVE. INSPECT ONE OF THE FOLLOWING VALVES IN GROUP 4: 2NI-60, 2NI-71, 2NI-82, AND 2NI-94 ONLY IF DISASSEMBLED FOR MAINTENANCE, REPAIR, OR VOLUMETRIC EXAMINATION. Group 4 was completed during EOC-19.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
M2.C1.10.0004	2ASWINJF-1								
	Class 2 NV	MCM 1201.04-27	NDE-3630	UT	SS		0.438 / 4.000	50424	C01.010.100
Circumferential		MC-ISIN3-2554-03.00							
			SHELL to UPPER FLANGE						
			SEAL WATER INJECTION FILTER 2A.						
M2.C1.30.0006	2ACSHX-SH-48								
	Class 2 NS	MCM 1201.06-025	NDE-3630	UT	CS		0.625 / 55.250	50422	C01.030.010
Circumferential		MC-ISIN3-2563-01.00							
			SHELL to TUBESHEET						
			CONTAINMENT SPRAY HEAT EXCHANGER 2A.						
Category C-B									
M2.C2.31.0005	2ACSHX-A-INLET								
	Class 2 NS	MCM 1201.06-25	NDE-25	MT	CS		0.625 / 10.000		C02.031.003, C02.031.005
Circumferential		MC-ISIN3-2563-01.00							
			Nozzle Reinforcing Pad to Shell						
			CONTAINMENT SPRAY HEAT EXCHANGER 2A INLET NOZZLE A AND REINFORCING PAD.						
M2.C2.31.0006	2ACSHX-B-OUTLET								
	Class 2 NS	MCM 1201.06-25	NDE-25	MT	CS		0.625 / 10.000		C02.031.004, C02.031.006
Circumferential		MC-ISIN3-2563-01.00							
			Nozzle Reinforcing Pad to Shell						
			CONTAINMENT SPRAY HEAT EXCHANGER 2A OUTLET NOZZLE B AND REINFORCING PAD.						
Category C-C									
M2.C3.20.0025	2MCA-NS-5002								
	Class 2 NS	MCSRD-2NS-350/sht. 1	NDE-35	PT	SS		0.125 / 10.000		C03.020.041
Rigid Support		MC-ISIN3-2563-01.00							
		2MCA-NS-5002							
			Rigid Support						
			WELDED ATTACHMENT. INSPECT WITH F01.020.227A.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category D-A									
M2.D1.10.0018	2RNST-SUPPORT-2B								
	Class 3 RN	MCM 1218.02-008	NDE-65	VT-1	NA		0.500 / 0.000		D01.010.010
Rigid Restraint		MC-ISIN3-2574-01.01							
		MCM 1218.02-009							
			Rigid Restraint						
			NUCLEAR SERVICE WATER STRAINER 2B SUPPORT. WELDED ATTACHMENT. INSPECT WITH F01.040.035B. Additional exam added Outage 2 per PIP M-06-2995.						
			Code Case N-700 requires only one welded attachment on a component to be examined. Only one Welded Attachment of the four support leg welded connections where the legs are welded to the strainer body. Examine the support leg shown on MCM 1218.02-8 Section B-B when directly facing the outlet nozzle examine the support to the right of the outlet nozzle on the strainer. This exam applies to Outage 4/EOC-19. Reference PIP G-08-00499 ACA#2 and CA#5.						
M2.D1.10.0023	2NSHX-SUPPORT-2B								
	Class 3 NS	MCM 1201.06-0090[1]	NDE-65	VT-1	NA		0.750 / 0.000		---
		MC-ISIN3-2563-01.00							
		MC 1220-32							
			2B CONTAINMENT SPRAY HEAT EXCHANGER SUPPORT WELDED ATTACHMENT. EXAMINE WITH M2.F1.40.0080. SINCE "HX A" & "HX B" ARE OF DIFFERENT DESIGN, BOTH WILL BE EXAMINED. REFERENCE PIP M-07-323. Examine Welded Attachments, Support Lugs located on Class C side below the bottom Tube Sheet. The Seismic Lugs were visually examined EOC-18/Outage 3 under this Summary Number but have been re-categorized to Summary Number M2.C3.10.0008. Code Case N-700 requires only one welded attachment on a component to be examined. Only one of the 4 Welded Attachment support lugs is required to be examined, select for examination the welded connection (support lug) shown on elevation view on drawing MCM 1201.06-0090 and support lug detail PC. #80, #81, #82, and #83 on MCM 1201.06-0093. Directly facing the 10 inch outlet nozzle connection "B" on the heat exchanger examine the support lug to the right side of nozzle. This exam applies to Outage 4/EOC-19. Reference PIP G-08-00499 ACA#2 and CA#5.						
Category F-A									
M2.F1.10.0011	2MCR-NC-4793								
	Class 1 NC	MCSRD-2NC-202/sht. 1	NDE-66	VT-3	NA		0.000 / 3.000		F01.010.011C
Mech Snubber									
			Mech Snubber						
M2.F1.10.0012	2MCR-NC-4067								
	Class 1 NC	MCSRD-2NC-202/sht. 2	NDE-66	VT-3	NA		0.000 / 6.000		F01.010.012C
Mech Snubber									
			Mech Snubber						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category F-A									
M2.F1.10.0013	2MCR-NC-4021								
	Class 1 NC	MCSRD-2NC-202/sht. 2	NDE-66	VT-3	NA		0.000 / 6.000		F01.010.013C
Constant Support									
			Constant Support						
M2.F1.10.0020	2MCR-ND-4506								
	Class 1 ND	MCSRD-2ND-201/sht. 1	NDE-66	VT-3	NA		0.000 / 14.000		F01.010.050C
Spring Hgr									
			Spring Hgr						
M2.F1.10.0034	2MCR-NI-4103								
	Class 1 NI	MCSRD-2NI-209/sht. 2	NDE-66	VT-3	NA		0.000 / 2.000		F01.010.087C
Mech Snubber									
			Mech Snubber						
M2.F1.10.0035	2MCR-NI-4745								
	Class 1 NI	MCSRD-2NI-209/sht. 2	NDE-66	VT-3	NA		0.000 / 2.000		F01.010.088A, F01.010.088B
Rigid Support									
			Rigid Support						
M2.F1.10.0036	2MCR-NI-4104								
	Class 1 NI	MCSRD-2NI-209/sht. 2	NDE-66	VT-3	NA		0.000 / 2.000		F01.010.089C
Mech Snubber									
			Mech Snubber						
M2.F1.10.0076	2MCR-NC-4274								
	Class 1 NC	MCSRD-2NC-203/sht. 1	NDE-66	VT-3	NA		0.000 / 4.000		F01.010.6035, F01.010.6036
Mech Snubber									
			Mech Snubber						
M2.F1.20.0005	2MCR-CA-H69								
	Class 2 CA	MCSRD-2CAN/sht. 1	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.005C
Hyd Snb/Spr Hgr									
			Hyd Snb/Spr Hgr						
M2.F1.20.0008	2MCA-CA-H80								
	Class 2 CA	MCSRD-2CAO/sht. 2	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.008C
Mech Snubber									
			Mech Snubber						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.0014	2MCA-CF-H172								
	Class 2	CF	MCSRD-2CFC/sht. 1	NDE-66	VT-3	NA		0.000 / 18.000	F01.020.052A
Rigid Support									
			Rigid Support						
M2.F1.20.0016	2MCA-CF-H203								
	Class 2	CF	MCSRD-2CFC/sht. 5	NDE-66	VT-3	NA		0.000 / 18.000	F01.020.054A
Rigid Support									
			Rigid Support						
M2.F1.20.0019	2MCA-FW-5001								
	Class 2	FW	MCSRD-2FW-350/sht. 1	NDE-66	VT-3	NA		0.000 / 24.000	F01.020.075A
Rigid Support									
			Rigid Support						
M2.F1.20.0020	2MCA-FW-5002								
	Class 2	FW	MCSRD-2FW-350/sht. 1	NDE-66	VT-3	NA		0.000 / 24.000	F01.020.076B
Rigid Restraint									
			Rigid Restraint						
M2.F1.20.0021	2MCA-FW-5005								
	Class 2	FW	MCSRD-2FW-350/sht. 1	NDE-66	VT-3	NA		0.000 / 24.000	F01.020.077A
Rigid Support									
			Rigid Support						
M2.F1.20.0043	2MCA-ND-5904								
	Class 2	ND	MCSRD-2ND-350/sht. 2	NDE-66	VT-3	NA		0.000 / 12.000	F01.020.111A
Rigid Support									
			Rigid Support						
M2.F1.20.0044	2MCA-ND-5913								
	Class 2	ND	MCSRD-2ND-350/sht. 2	NDE-66	VT-3	NA		0.000 / 12.000	F01.020.112C
Mech Snubber									
			Mech Snubber						
M2.F1.20.0048	2MCA-ND-5682								
	Class 2	ND	MCSRD-2ND-350/sht. 4	NDE-66	VT-3	NA		0.000 / 8.000	F01.020.116C
Mech Snubber									
			Mech Snubber						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.0049	2MCA-ND-5611								
	Class 2	ND	MCSRD-2ND-350/sht. 4	NDE-66	VT-3	NA		0.000 / 8.000	F01.020.117B
Rigid Restraint									
			Rigid Restraint						
M2.F1.20.0053	2MCA-ND-5702								
	Class 2	ND	MCSRD-2ND-350/sht. 7	NDE-66	VT-3	NA		0.000 / 8.000	F01.020.121B
Rigid Restraint									
			Rigid Restraint						
M2.F1.20.0114	2-MCA-S-NV-510-1-A								
	Class 2	NV	2-MCA-S-NV-510-1	NDE-66	VT-3	NA		0.250 / 2.000	F01.020.254B
Rigid Restraint									
			Rigid Restraint						
M2.F1.20.0177	2MCR-VQ-4551								
	Class 2	VQ	MCSRD-2VQ-201/sht. 1	NDE-66	VT-3	NA		0.000 / 6.000	F01.020.501A
Rigid Support									
			Rigid Support						
M2.F1.20.0178	2MCR-VQ-4004								
	Class 2	VQ	MCSRD-2VQ-202/sht. 1	NDE-66	VT-3	NA		0.000 / 6.000	F01.020.502C
Mech Snubber									
			Mech Snubber						
M2.F1.20.0221	2MCA-CF-H173								
	Class 2	CF	MCSRD-2CFC/sht. 1	NDE-66	VT-3	NA		0.000 / 18.000	F01.020.059C, F01.020.6349
Mech Snubber									
			Mech Snubber						
M2.F1.20.0367	2MCA-ND-6123								
	Class 2	ND	MCSRD-2ND-350/sht. 3	NDE-66	VT-3	NA		1.000 / 8.000	F01.020.130A, F01.020.6635
Rigid Support									
			Rigid Support						
			M2.C3.20.0001 has interference preventing examination, this exam (M2.F1.20.0367) will remain in the F-A Category and it was examined EOC-19.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.0454	2MCA-NS-5002 Class 2 NS	MCSRD-2NS-350/sht. 1	NDE-66	VT-3	NA		0.125 / 10.000		F01.020.227A, F01.020.6786
Rigid Support			Rigid Support INSPECT WITH C03.020.041.						
M2.F1.20.0523	2MCA-NV-5038 Class 2 NV	MCSRD-2NV-350/sht. 1	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.265A, F01.020.6914
Rigid Support			Rigid Support						
M2.F1.20.0682	2MCA-NV-7045 Class 2 NV	MCSRD-2ND-350/sht. 7	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.252A, F01.020.7190
Rigid Support			Rigid Support						
M2.F1.20.0909	2MCR-NI-4826 Class 2 NI	MCSRD-2NI-208/sht. 1	NDE-66	VT-3	NA		0.000 / 2.000		F01.020.188A, F01.020.7611
Rigid Support			Rigid Support						
M2.F1.20.0926	2MCR-NS-4015 Class 2 NS	MCSRD-2NS-204/sht. 1	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.232A, F01.020.7643
Rigid Support			Rigid Support						
M2.F1.20.0999	2MCR-NV-4009 Class 2 NV	MCSRD-2NV-207/sht. 1	NDE-66	VT-3	NA		0.203 / 2.000		F01.020.253A, F01.020.7802
Rigid Support			Rigid Support						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.1021	2MCR-NV-4301								
	Class 2 NV	MCSRD-2NV-225F/sht.	NDE-66	VT-3	NA		0.000 / 2.000		F01.020.263A, F01.020.7840
Rigid Support									
			Rigid Support						
M2.F1.20.1030	2MCR-NV-4416								
	Class 2 NV	MCSRD-2NV-209/sht. 1	NDE-66	VT-3	NA		0.600 / 2.000		F01.020.255A, F01.020.7857
Rigid Support									
			Rigid Support						
M2.F1.20.1136	2MCR-CA-H92								
	Class 2 CA	MCSRD-2CAO/sht. 1	NDE-66	VT-3	NA		0.000 / 4.000		F01.020.014A
Rigid Support									
			Rigid Support						
M2.F1.30.0038	2MCA-KC-3286								
	Class 3 KC	MCSRD-2KC-358/sht. 4	NDE-66	VT-3	NA		0.000 / 8.000		F01.030.069B
Rigid Restraint									
			Rigid Restraint						
M2.F1.30.0039	2MCA-KC-3356								
	Class 3 KC	MCSRD-2KC-367/sht. 1	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.070B
Rigid Restraint									
			Rigid Restraint						
M2.F1.30.0040	2MCR-KC-4060								
	Class 3 KC	MCSRD-2KC-202/sht. 2	NDE-66	VT-3	NA		1.000 / 8.000		F01.030.071A
Rigid Support									
			Rigid Support						
M2.F1.30.0041	2MCA-KD-3041								
	Class 3 KD	MCSRD-2KD-352/sht. 1	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.100A, F01.030.100B
Rigid Restraint									
			Rigid Restraint						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.30.0042	2MCA-KD-3011								
	Class 3 KD	MCSRD-2KD-356/sht. 1	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.101C
Spring Hgr									
			Spring Hgr						
M2.F1.30.0043	2MCA-RN-3044								
	Class 3 RN	MCSRD-2CA-351/sht. 2	NDE-66	VT-3	NA		0.000 / 8.000		F01.030.150A, F01.030.172B
Rigid Restraint									
			Rigid Restraint						
M2.F1.30.0044	2MCA-RN-3258								
	Class 3 RN	MCSRD-2CA-351/sht. 4	NDE-66	VT-3	NA		0.000 / 8.000		F01.030.151B
Rigid Restraint									
			Rigid Restraint						
M2.F1.30.0045	2MCA-RN-3259								
	Class 3 RN	MCSRD-2CA-351/sht. 4	NDE-66	VT-3	NA		0.000 / 8.000		F01.030.152C
Mech Snubber									
			Mech Snubber						
M2.F1.30.0250	2MCA-KC-3014								
	Class 3 KC	MCSRD-2KC-351/sht. 4	NDE-66	VT-3	NA		0.000 / 20.000		F01.030.073A, F01.030.8270
Rigid Support									
			Rigid Support						
M2.F1.30.0295	2MCA-KC-3083								
	Class 3 KC	MCSRD-2KC-351/sht. 5	NDE-66	VT-3	NA		0.000 / 16.000		F01.030.074A, F01.030.8368
Rigid Support									
			Rigid Support						
M2.F1.30.0310	2MCA-KC-3119								
	Class 3 KC	MCSRD-2KC-358/sht. 1	NDE-66	VT-3	NA		0.365 / 16.000		F01.030.076B, F01.030.8397
Rigid Restraint									
			Rigid Restraint						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category F-A									
M2.F1.40.0076	2RPV-SUPPORT-D								
	Class 1 NC	MCM 1201.01-0782	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.033B
Rigid Restraint		MC-ISIN3-2553-01.00							
		MCM 1201.01-079							
			Rigid Restraint						
			REACTOR VESSEL SUPPORT. REFERENCE MCM 1117.00-010.						
M2.F1.40.0078	2RNST-SUPPORT-2B								
	Class 3 RN	MCM 1218.02-008	NDE-66	VT-3	NA		0.500 / 0.000		F01.040.035B
Rigid Restraint		MC-ISIN3-2574-01.01							
		MCM 1218.02-009							
			Rigid Restraint						
			NUCLEAR SERVICE WATER STRAINER 2B SUPPORT.						
M2.F1.40.0108	2KCP-SUPPORT-2A1								
	Class 3 KC	MCM 1201.05-143	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.021C
Spring Hgr		MC-ISIN3-2573-01.00							
			Spring Hgr						
			COMPONENT COOLING PUMP 2A1 SUPPORT.						
M2.F1.40.0113	2RPV-SUPPORT-A								
	Class 1 NC	MCM 1201.01-078	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.030B
Rigid Support		MC-ISIN3-2553-01.00							
		MCM 1201.01-079							
			Rigid Support						
			REACTOR VESSEL SUPPORT. REFERENCE MCM 1117.00-010.						
M2.F1.40.0114	2RPV-SUPPORT-B								
	Class 1 NC	MCM 1201.01-078	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.031B
Rigid Restraint		MC-ISIN3-2553-01.00							
		MCM 1201.01-079							
			Rigid Restraint						
			REACTOR VESSEL SUPPORT. REFERENCE MCM 1117.00-010.						
M2.F1.40.0115	2RPV-SUPPORT-C								
	Class 1 NC	MCM 1201.01-078	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.032B
Rigid Restraint		MC-ISIN3-2553-01.00							
		MCM 1201.01-079							
			Rigid Restraint						
			REACTOR VESSEL SUPPORT. REFERENCE MCM 1117.00-010.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category R-A									
M2.R1.11.0048	2NC2FW39-1								Risk Segment NC-024
	Class 1 NC	MCFI-2NC39	PDI-UT-2	UT	SS		0.281 / 1.500	50202	R01.011.014
		MC-ISIN3-2553-01.00						PDI-UT-2-C	
								PDI-UT-2A-M	
Circumferential									
			Pipe to Nozzle						
			Examined in Outage 2 (EOC-17) additional examination to be performed in Qutage 4 (EOC-19) reference PIP G-08-0152						
M2.R1.11.0049	2NC2FW40-11								Risk Segment NC-025
	Class 1 NC	MCFI-2NC40	PDI-UT-2	UT	SS		0.281 / 1.500	50202	R01.011.015
		MC-ISIN3-2553-01.00						PDI-UT-2-C	
								PDI-UT-2A-M	
Circumferential									
			Pipe to Nozzle						
			Examined in Outage 2 (EOC-17) additional examination to be performed in Outage 4 (EOC-19) reference PIP G-08-0152						
M2.R1.11.0050	2NC2FW43-1								Risk Segment NC-026
	Class 1 NC	MCFI-2NC43	PDI-UT-2	UT	SS		0.281 / 1.500	50202	R01.011.016
		MC-ISIN3-2553-01.00						PDI-UT-2-C	
								PDI-UT-2A-M	
Circumferential									
		MCM 2201.01-16							
			Pipe to Nozzle						
			Examined in Outage 2 (EOC-17) additional examination to be performed in Outage 4 (EOC-19) reference PIP G-08-0152						
M2.R1.11.0058	2SGB-OUTLET-W6SE								Risk Segment NC-006
	Class 1 NC	MC-2676-4	PDI-UT-10	UT	SS-CS		2.500 / 31.000	5149697	R01.011.006
		MC-ISIN-2553-01.00						5158172	
Circumferential									
Terminal End		MCM 2201.01-0194							
Dissimilar									
			NOZZLE to SAFE END						
			STEAM GENERATOR B OUTLET . Depending on the Inspector, Procedure PDI-UT-10 or EPRI-DMW-PA-1 may be used.						
M2.R1.11.1532	2NV2FW27-2								Risk Segment NV-001
	Class 2 NV	MCFI-2NV27	NDE-12	RT	SS		0.148 / 8.000		R01.011.125
Circumferential		MC-ISIN-2554-03.01							
			Elbow to Pipe						
			Reference PIP M-08-00778. For this weld to be examined valve 2NV223 must be disassembled to allow for the draining of pipe. This evaluation was made with the concurrence of the Operations Technical Group.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category R-A									
M2.R1.11.1539	2NV2FW10-6								Risk Segment NV-002L
	Class 2 NV	MCFI-2NV10	NDE-12	RT	SS		0.120 / 3.000		R01.011.132
Circumferential		MC-ISIN-2554-03.01							
			Pipe to Elbow						
M2.R1.11.1540	2NV2FW35-6								Risk Segment NV-011A
	Class 2 NV	MCFI-2NV35	PDI-UT-2	UT	SS		0.531 / 4.000	PDI-UT-2A-M	R01.011.133
		MC-ISIN-2554-03.01						50275	
								PDI-UT-2-C	
Circumferential									
			Pipe to Elbow						
M2.R1.11.1541	2NV2FW35-3								Risk Segment NV-011A
	Class 2 NV	MCFI-2NV35	PDI-UT-2	UT	SS		0.531 / 4.000	PDI-UT-2-C	R01.011.134
		MC-ISIN-2554-03.01						50275	
								PDI-UT-2A-M	
Circumferential									
			Elbow to Pipe						
M2.R1.11.1543	2NV2FW294-23								Risk Segment NV-019AC
	Class 2 NV	MCFI-2NV294	NDE-600	UT	SS		0.344 / 2.000		R01.011.136
		MC-ISIN-2554-03.00						50217	
								Component	
Circumferential									
			Pipe to Reducer						
M2.R1.11.1544	2NV2FW179-2								Risk Segment NV-020A
	Class 2 NV	MCFI-2NV179	PDI-UT-2	UT	SS		0.438 / 3.000	PDI-UT-2-C	R01.011.137
		MC-ISIN-2554-03.00						PDI-UT-2A-M	
Circumferential									
			Elbow to Pipe						
M2.R1.11.1563	2NV2FW183-12								Risk Segment NV-020AG
	Class 2 NV	MCFI-2NV180	PDI-UT-2	UT	SS		0.344 / 2.000	PDI-UT-2-C	R01.011.140
		MC-ISIN-2554-01.00						50217	
								PDI-UT-2A-M	
Circumferential									
			Reducer to Pipe						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category R-A									
M2.R1.11.1565	2NV2FW294-4 Class 2 NV	MCFI-2NV294 MC-ISIN-2554-03.00	NDE-600	UT	SS		0.344 / 2.000	50217 Component	Risk Segment NV-020AF R01.011.138
Circumferential			Pipe to Reducer						
M2.R1.11.1566	2NV2FW180-1 Class 2 NV	MCFI-2NV180 MC-ISIN-2554-01.00	PDI-UT-2	UT	SS		0.344 / 2.000	PDI-UT-2-C 50217 PDI-UT-2A-M	Risk Segment NV-020AG R01.011.139
Circumferential			Reducer to Pipe						
M2.R1.11.1663	2NC2FW13-3 Class 1 NC	MCFI-2NC13 MC-ISIN-2553-02.00	PDI-UT-2	UT	SS		0.531 / 4.000	50307 PDI-UT-2-C PDI-UT-2A-M	Risk Segment NC-043 R01.011.9256
Circumferential			Pipe to Elbow This item was added per PIP G-08-0268, CA-2, and CA-8 . This weld replaces weld 2PZR-W2SE which had a weld overlay. This weld added to complete Risk Informed selection in Segment NC-043. For PDI-UT-2 Exam Cal Block 50307 will be used instead of Cal Block PDI-UT-2-M.						
M2.R1.11.1730	2NC2FW2-2 Class 1 NC	MCFI-2NC2 MC-ISIN-2553-01.00	PDI-UT-2	UT	SS		1.406 / 14.000	PDI-UT-2-C 50207	Risk Segment NC-073 R01.011.9323
Circumferential			Nozzle to Pipe This item was added per PIP G-08-0268, CA-2, and CA-8 . This weld replaces weld 2PZR-W1SE which had a weld overlay. This weld added to complete Risk Informed selection in Segment NC-073.						

End of Report

STATISTICS ONLY Class 1 153 Class 2 40 Class 3 15 Total by Class 208 Systems 207 Total Count 208

4.0 Results of Inspections Performed

The results of each examination shown in the Inspection Results (Section 3 of this report) are included in this section. The completion date and status for each examination are shown. All examinations revealing reportable indications and any corrective action required as a result are described in further detail in Subsections 4.1 and 4.2. Corrective measures performed and limited examinations are described in further detail in Subsections 4.3 and 4.4.

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

SUMMARY 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
COMPONENT ID	=	Unique Identification Number
SYSTEM	=	Component System Identification
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)	=	Y Yes N No
RFR (Relief Request)	=	Y Yes N No
COMMENTS	=	General and / or Detail Description

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Inspection Results
McGuire 2, 3rd Interval, Outage 4 (EOC-19)

EOC-19 Inspection Results

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B12.50.0011	2NI-60	NI	09/18/09	CLR	N	N	N	VT-09-260
M2.B15.80.0001	2-RPV-BMI-NOZZLES	NC	09/07/09	CLR	N	N	N	VT-09-204
M2.B3.110.0003	2PZR-13	NC	09/07/09	CLR	Y	N	Y	UT-09-097 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.B3.110.0004	2PZR-14	NC	09/07/09	CLR	Y	N	Y	UT-09-099 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.B3.110.0005	2PZR-15	NC	09/07/09	CLR	Y	N	Y	UT-09-098 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.B3.120.0003	2PZR-13R	NC	09/07/09	CLR	N	N	N	UT-09-048
M2.B3.120.0004	2PZR-14R	NC	09/07/09	CLR	N	N	N	UT-09-049
M2.B3.120.0005	2PZR-15R	NC	09/07/09	CLR	N	N	N	UT-09-050
M2.B3.140.0003	2SGB-INLET	NC	09/10/09	CLR	N	N	N	UT-09-051
M2.B3.140.0004	2SGB-OUTLET	NC	09/10/09	CLR	N	N	N	UT-09-052

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B4.10.0002	2RPV-Head-Multiple		09/22/09	CLR	N	N	N	VT-09-297
M2.B6.10.0001	2RPV-664-32-20	NC	09/18/09	CLR	N	N	N	VT-09-248
M2.B6.10.0002	2RPV-664-32-21	NC	09/18/09	CLR	N	N	N	VT-09-249
M2.B6.10.0003	2RPV-664-32-22	NC	09/18/09	CLR	N	N	N	VT-09-250
M2.B6.10.0004	2RPV-664-32-23	NC	09/18/09	CLR	N	N	N	VT-09-251
M2.B6.10.0005	2RPV-664-32-24	NC	09/18/09	CLR	N	N	N	VT-09-252
M2.B6.10.0006	2RPV-664-32-25	NC	09/18/09	CLR	N	N	N	VT-09-261
M2.B6.10.0007	2RPV-664-32-26	NC	09/18/09	CLR	N	N	N	VT-09-262
M2.B6.10.0008	2RPV-664-32-27	NC	09/19/09	CLR	N	N	N	VT-09-263
M2.B6.10.0009	2RPV-664-32-28	NC	09/19/09	CLR	N	N	N	VT-09-264
M2.B6.10.0010	2RPV-664-32-29	NC	09/19/09	CLR	N	N	N	VT-09-265
M2.B6.10.0011	2RPV-664-32-30	NC	09/19/09	CLR	N	N	N	VT-09-266
M2.B6.10.0012	2RPV-664-32-31	NC	09/19/09	CLR	N	N	N	VT-09-267
M2.B6.10.0018	2RPV-664-32-32	NC	09/19/09	CLR	N	N	N	VT-09-268

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B6.10.0019	2RPV-664-32-33	NC	09/19/09	CLR	N	N	N	VT-09-269
M2.B6.10.0020	2RPV-664-32-34	NC	09/19/09	CLR	N	N	N	VT-09-270
M2.B6.10.0021	2RPV-664-32-35	NC	09/19/09	CLR	N	N	N	VT-09-271
M2.B6.10.0045	2RPV-664-32-10	NC	09/17/09	CLR	N	N	N	VT-09-229
M2.B6.10.0046	2RPV-664-32-11	NC	09/17/09	CLR	N	N	N	VT-09-230
M2.B6.10.0047	2RPV-664-32-12	NC	09/17/09	CLR	N	N	N	VT-09-231
M2.B6.10.0048	2RPV-664-32-13	NC	09/17/09	CLR	N	N	N	VT-09-232
M2.B6.10.0049	2RPV-664-32-14	NC	09/17/09	CLR	N	N	N	VT-09-233
M2.B6.10.0050	2RPV-664-32-15	NC	09/17/09	CLR	N	N	N	VT-09-234
M2.B6.10.0051	2RPV-664-32-16	NC	09/17/09	CLR	N	N	N	VT-09-235
M2.B6.10.0052	2RPV-664-32-17	NC	09/17/09	CLR	N	N	N	VT-09-236
M2.B6.10.0053	2RPV-664-32-18	NC	09/17/09	CLR	N	N	N	VT-09-237
M2.B6.10.0054	2RPV-664-32-19	NC	09/18/09	CLR	N	N	N	VT-09-259
M2.B6.100.0001	2SGA-MW-Y1-X1	NC	09/16/09	CLR	N	N	N	VT-09-225

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B6.100.0002	2SGA-MW-X1-Y2	NC	09/16/09	CLR	N	N	N	VT-09-226
M2.B6.100.0003	2SGB-MW-Y1-X2	NC	09/16/09	CLR	N	N	N	VT-09-221
M2.B6.100.0004	2SGB-MW-X2-Y2	NC	09/16/09	CLR	N	N	N	VT-09-222
M2.B6.100.0005	2SGC-MW-Y1-X1	NC	09/16/09	CLR	N	N	N	VT-09-223
M2.B6.100.0006	2SGC-MW-X1-Y2	NC	09/16/09	CLR	N	N	N	VT-09-224
M2.B6.100.0007	2SGD-MW-Y1-X2	NC	09/16/09	CLR	N	N	N	VT-09-227
M2.B6.100.0008	2SGD-MW-X2-Y2	NC	09/16/09	CLR	N	N	N	VT-09-228
M2.B6.30.0010	2RPV-664-31-10	NC	09/17/09	CLR	N	N	N	UT-09-070
M2.B6.30.0011	2RPV-664-31-11	NC	09/17/09	CLR	N	N	N	UT-09-071
M2.B6.30.0016	2RPV-664-31-12	NC	09/17/09	CLR	N	N	N	UT-09-072
M2.B6.30.0017	2RPV-664-31-13	NC	09/17/09	CLR	N	N	N	UT-09-073
M2.B6.30.0018	2RPV-664-31-14	NC	09/17/09	CLR	N	N	N	UT-09-074
M2.B6.30.0019	2RPV-664-31-15	NC	09/17/09	CLR	N	N	N	UT-09-075
M2.B6.30.0021	2RPV-664-31-16	NC	09/17/09	CLR	N	N	N	UT-09-076

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B6.30.0022	2RPV-664-31-17	NC	09/17/09	CLR	N	N	N	UT-09-077
M2.B6.30.0035	2RPV-664-31-18	NC	09/17/09	CLR	N	N	N	UT-09-078
M2.B6.30.0036	2RPV-664-31-19	NC	09/18/09	CLR	N	N	N	UT-09-058
M2.B6.30.0037	2RPV-664-31-20	NC	09/18/09	CLR	N	N	N	UT-09-059
M2.B6.30.0038	2RPV-664-31-21	NC	09/18/09	CLR	N	N	N	UT-09-060
M2.B6.30.0039	2RPV-664-31-22	NC	09/18/09	CLR	N	N	N	UT-09-061
M2.B6.30.0040	2RPV-664-31-23	NC	09/18/09	CLR	N	N	N	UT-09-062
M2.B6.30.0041	2RPV-664-31-24	NC	09/18/09	CLR	N	N	N	UT-09-063
M2.B6.30.0042	2RPV-664-31-25	NC	09/18/09	CLR	N	N	N	UT-09-064
M2.B6.30.0043	2RPV-664-31-26	NC	09/18/09	CLR	N	N	N	UT-09-065
M2.B6.30.0044	2RPV-664-31-27	NC	09/18/09	CLR	N	N	N	UT-09-066
M2.B6.30.0045	2RPV-664-31-28	NC	09/18/09	CLR	N	N	N	UT-09-067
M2.B6.30.0046	2RPV-664-31-29	NC	09/18/09	CLR	N	N	N	UT-09-068
M2.B6.30.0047	2RPV-664-31-30	NC	09/18/09	CLR	N	N	N	UT-09-069

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B6.30.0048	2RPV-664-31-31	NC	09/19/09	CLR	N	N	N	UT-09-079
M2.B6.30.0049	2RPV-664-31-32	NC	09/19/09	CLR	N	N	N	UT-09-080
M2.B6.30.0050	2RPV-664-31-33	NC	09/19/09	CLR	N	N	N	UT-09-081
M2.B6.30.0051	2RPV-664-31-34	NC	09/19/09	CLR	N	N	N	UT-09-082
M2.B6.30.0052	2RPV-664-31-35	NC	09/19/09	CLR	N	N	N	UT-09-083
M2.B6.50.0003	2RPV-664-33-33	NC	09/19/09	CLR	N	N	N	VT-09-272
M2.B6.50.0004	2RPV-664-33-34	NC	09/19/09	CLR	N	N	N	VT-09-273
M2.B6.50.0005	2RPV-664-33-35	NC	09/19/09	CLR	N	N	N	VT-09-274
M2.B6.50.0014	2RPV-664-33-10	NC	09/17/09	CLR	N	N	N	VT-09-238
M2.B6.50.0015	2RPV-664-33-11	NC	09/17/09	CLR	N	N	N	VT-09-239
M2.B6.50.0016	2RPV-664-33-12	NC	09/17/09	CLR	N	N	N	VT-09-240
M2.B6.50.0017	2RPV-664-33-13	NC	09/17/09	CLR	N	N	N	VT-09-241
M2.B6.50.0018	2RPV-664-33-14	NC	09/17/09	CLR	N	N	N	VT-09-242
M2.B6.50.0019	2RPV-664-33-15	NC	09/17/09	CLR	N	N	N	VT-09-243

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B6.50.0020	2RPV-664-33-16	NC	09/17/09	CLR	N	N	N	VT-09-244
M2.B6.50.0021	2RPV-664-33-17	NC	09/17/09	CLR	N	N	N	VT-09-245
M2.B6.50.0022	2RPV-664-33-18	NC	09/17/09	CLR	N	N	N	VT-09-246
M2.B6.50.0023	2RPV-664-33-19	NC	09/18/09	CLR	N	N	N	VT-09-253
M2.B6.50.0024	2RPV-664-33-20	NC	09/18/09	CLR	N	N	N	VT-09-254
M2.B6.50.0025	2RPV-664-33-21	NC	09/18/09	CLR	N	N	N	VT-09-255
M2.B6.50.0026	2RPV-664-33-22	NC	09/18/09	CLR	N	N	N	VT-09-256
M2.B6.50.0027	2RPV-664-33-23	NC	09/18/09	CLR	N	N	N	VT-09-257
M2.B6.50.0028	2RPV-664-33-24	NC	09/18/09	CLR	N	N	N	VT-09-258
M2.B6.50.0029	2RPV-664-33-25	NC	09/19/09	CLR	N	N	N	VT-09-275
M2.B6.50.0030	2RPV-664-33-26	NC	09/19/09	CLR	N	N	N	VT-09-276
M2.B6.50.0031	2RPV-664-33-27	NC	09/19/09	CLR	N	N	N	VT-09-277
M2.B6.50.0032	2RPV-664-33-28	NC	09/19/09	CLR	N	N	N	VT-09-278
M2.B6.50.0033	2RPV-664-33-29	NC	09/19/09	CLR	N	N	N	VT-09-279

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B6.50.0034	2RPV-664-33-30	NC	09/19/09	CLR	N	N	N	VT-09-280
M2.B6.50.0035	2RPV-664-33-31	NC	09/19/09	CLR	N	N	N	VT-09-281
M2.B6.50.0036	2RPV-664-33-32	NC	09/19/09	CLR	N	N	N	VT-09-282
M2.B6.90.0001	2SGA-MW-Y1-X1	NC	09/23/09	CLR	N	N	N	UT-09-086
M2.B6.90.0002	2SGA-MW-X1-Y2	NC	09/23/09	CLR	N	N	N	UT-09-087
M2.B6.90.0003	2SGB-MW-Y1-X2	NC	09/21/09	CLR	N	N	N	UT-09-084
M2.B6.90.0004	2SGB-MW-X2-Y2	NC	09/21/09	CLR	N	N	N	UT-09-085
M2.B6.90.0005	2SGC-MW-Y1-X1	NC	09/22/09	CLR	N	N	N	UT-09-088
M2.B6.90.0006	2SGC-MW-X1-Y2	NC	09/22/09	CLR	N	N	N	UT-09-089
M2.B6.90.0007	2SGD-MW-Y1-X2	NC	09/24/09	CLR	N	N	N	UT-09-092
M2.B6.90.0008	2SGD-MW-X2-Y2	NC	09/22/09	CLR	N	N	N	UT-09-093
M2.B7.10.0001	2-RPV-CONOSEAL-1	NC	09/21/09	CLR	N	N	N	VT-09-287
M2.B7.10.0002	2-RPV-CONOSEAL-2	NC	09/21/09	CLR	N	N	N	VT-09-288
M2.B7.10.0003	2-RPV-CONOSEAL-3	NC	09/21/09	CLR	N	N	N	VT-09-289

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.B7.10.0004	2-RPV-CONOSEAL-4	NC	09/21/09	CLR	N	N	N	VT-09-290
M2.B7.10.0005	2-RPV-CONOSEALS-5	NC	09/21/09	CLR	N	N	N	VT-09-291
M2.B7.70.0001	2NI-59	NI	09/11/09	CLR	N	N	N	VT-09-218
M2.B7.70.0013	2NI-181	NI	09/11/09	REC	N	N	N	VT-09-219 Dry boron found in the body to bonnet seal area the boron is not in contact with the bolting threads or nuts. No operability concerns for this item.
M2.C1.10.0004	2ASWINJF-1	NV	08/18/09	CLR	Y	N	N	UT-09-035 Limitation caused by nozzle configuration, greater than 90% coverage achieved.
M2.C1.30.0006	2ACSHX-SH-48	NS	08/20/09	CLR	Y	N	Y	UT-09-037 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.C2.31.0005	2ACSHX-A-INLET	NS	08/20/09	CLR	N	N	N	MT-09-003
M2.C2.31.0006	2ACSHX-B-OUTLET	NS	08/20/09	CLR	N	N	N	MT-09-004
M2.C3.20.0025	2MCA-NS-5002	NS	08/20/09	CLR	N	N	N	PT-09-014
M2.D1.10.0018	2RNST-SUPPORT-2B	RN	08/27/09	CLR	N	N	N	VT-09-194
M2.D1.10.0023	2NSHX-SUPPORT-2B	NS	08/27/09	CLR	N	N	N	VT-09-195
M2.F1.10.0011	2MCR-NC-4793	NC	09/08/09	CLR	N	N	N	VT-09-199

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.10.0012	2MCR-NC-4067	NC	09/08/09	CLR	N	N	N	VT-09-198
M2.F1.10.0013	2MCR-NC-4021	NC	09/08/09	CLR	N	N	N	VT-09-200
M2.F1.10.0020	2MCR-ND-4506	ND	09/09/09	REC	N	N	N	VT-09-217 Sketch specifies 1" offset, and actual offset is 2 1/8" found to be acceptable, revised calculation EC#101855. Engineering, acceptable for continued service no operability issue.
M2.F1.10.0034	2MCR-NI-4103	NI	09/09/09	REC	N	N	N	VT-09-212 Sketch specifies C/S to be 1 1/4 plus 1/4 minus 1/16, actual setting 1 3/4. Damaged snap ring, Sketch specifies 1/16" clearance 3/16" in field. #6 pipe clamp is offset 7/8" above weld. Drawing and calculation revised , WR# 989149 written to make repairs. Engineering, acceptable for continued service no operability issue.
M2.F1.10.0035	2MCR-NI-4745	NI	09/09/09	CLR	N	N	N	VT-09-211
M2.F1.10.0036	2MCR-NI-4104	NI	09/09/09	REC	N	N	N	VT-09-213 Loose locknut on load bolt, damaged snap ring. WR# 00989086 written to make repairs. Engineering, acceptable for continued service no operability issue.
M2.F1.10.0076	2MCR-NC-4274	NC	09/08/09	REC	N	N	N	VT-09-197 C/S is out of tolerance. Revised calculation and drawing removed note on set limit EC# 101855. Engineering, acceptable for continued service no operability issue.
M2.F1.20.0005	2MCR-CA-H69	CA	09/09/09	CLR	N	N	N	VT-09-216
M2.F1.20.0008	2MCA-CA-H80	CA	08/26/09	CLR	N	N	N	VT-09-186
M2.F1.20.0014	2MCA-CF-H172	CF	08/26/09	CLR	N	N	N	VT-09-187

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.20.0016	2MCA-CF-H203	CF	08/26/09	CLR	N	N	N	VT-09-188
M2.F1.20.0019	2MCA-FW-5001	FW	08/11/09	CLR	N	N	N	VT-09-172
M2.F1.20.0020	2MCA-FW-5002	FW	08/11/09	CLR	N	N	N	VT-09-171
M2.F1.20.0021	2MCA-FW-5005	FW	08/11/09	CLR	N	N	N	VT-09-170
M2.F1.20.0043	2MCA-ND-5904	ND	08/24/09	CLR	N	N	N	VT-09-184
M2.F1.20.0044	2MCA-ND-5913	ND	08/11/09	CLR	N	N	N	VT-09-169
M2.F1.20.0048	2MCA-ND-5682	ND	08/10/09	CLR	N	N	N	VT-09-162
M2.F1.20.0049	2MCA-ND-5611	ND	08/24/09	CLR	N	N	N	VT-09-185
M2.F1.20.0053	2MCA-ND-5702	ND	08/10/09	CLR	N	N	N	VT-09-163
M2.F1.20.0114	2-MCA-S-NV-510-1-A	NV	08/12/09	CLR	N	N	N	VT-09-168
M2.F1.20.0177	2MCR-VQ-4551	VQ	09/09/09	CLR	N	N	N	VT-09-205
M2.F1.20.0178	2MCR-VQ-4004	VQ	09/09/09	REC	N	N	N	VT-09-206 S-dimension on pipe clamp item #7 is 5/8" as found is 17/32". Dimensional discepancy has no effect on S/R ability to perform it design function. Engineering, acceptable for continued service no operability issue.
M2.F1.20.0221	2MCA-CF-H173	CF	08/26/09	CLR	N	N	N	VT-09-189

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.20.0367	2MCA-ND-6123	ND	08/10/09	CLR	N	N	N	VT-09-164
M2.F1.20.0454	2MCA-NS-5002	NS	08/12/09	CLR	N	N	N	VT-09-166
M2.F1.20.0523	2MCA-NV-5038	NV	08/13/09	CLR	N	N	N	VT-09-173
M2.F1.20.0682	2MCA-NV-7045	NV	08/12/09	CLR	N	N	N	VT-09-167
M2.F1.20.0909	2MCR-NI-4826	NI	09/08/09	CLR	N	N	N	VT-09-208
M2.F1.20.0926	2MCR-NS-4015	NS	09/09/09	CLR	N	N	N	VT-09-207
M2.F1.20.0999	2MCR-NV-4009	NV	09/09/09	CLR	N	N	N	VT-09-214
M2.F1.20.1021	2MCR-NV-4301	NV	09/08/09	CLR	N	N	N	VT-09-196
M2.F1.20.1030	2MCR-NV-4416	NV	09/08/09	CLR	N	N	N	VT-09-209
M2.F1.20.1136	2MCR-CA-H92	CA	09/09/09	CLR	N	N	N	VT-09-215
M2.F1.30.0038	2MCA-KC-3286	KC	08/20/09	CLR	N	N	N	VT-09-181
M2.F1.30.0039	2MCA-KC-3356	KC	08/20/09	CLR	N	N	N	VT-09-180
M2.F1.30.0040	2MCR-KC-4060	KC	09/08/09	CLR	N	N	N	VT-09-210
M2.F1.30.0041	2MCA-KD-3041	KD	08/12/09	CLR	N	N	N	VT-09-182

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.30.0042	2MCA-KD-3011	KD	08/12/09	CLR	N	N	N	VT-09-183
M2.F1.30.0043	2MCA-RN-3044	RN	08/12/09	CLR	N	N	N	VT-09-176
M2.F1.30.0044	2MCA-RN-3258	RN	08/12/09	CLR	N	N	N	VT-09-177
M2.F1.30.0045	2MCA-RN-3259	RN	08/12/09	CLR	N	N	N	VT-09-178
M2.F1.30.0250	2MCA-KC-3014	KC	08/20/09	CLR	N	N	N	VT-09-179
M2.F1.30.0295	2MCA-KC-3083	KC	08/11/09	CLR	N	N	N	VT-09-175
M2.F1.30.0310	2MCA-KC-3119	KC	08/11/09	CLR	N	N	N	VT-09-174
M2.F1.40.0076	2RPV-SUPPORT-D	NC	09/18/09	CLR	N	N	N	VT-09-283
M2.F1.40.0078	2RNST-SUPPORT-2B	RN	08/27/09	CLR	N	N	N	VT-09-191
M2.F1.40.0108	2KCP-SUPPORT-2A1	KC	08/27/09	CLR	N	N	N	VT-09-190
M2.F1.40.0113	2RPV-SUPPORT-A	NC	09/19/09	CLR	N	N	N	VT-09-284
M2.F1.40.0114	2RPV-SUPPORT-B	NC	09/19/09	CLR	N	N	N	VT-09-285
M2.F1.40.0115	2RPV-SUPPORT-C	NC	09/18/09	CLR	N	N	N	VT-09-286
M2.G2.1.0001	2RPV-664-31-12	NC	09/17/09	CLR	N	N	N	MT-09-005

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.G2.1.0002	2RPV-664-32-12	NC	09/17/09	CLR	N	N	N	MT-09-006
M2.G2.1.0003	2RPV-664-31-13	NC	09/17/09	CLR	N	N	N	MT-09-007
M2.G2.1.0004	2RPV-664-32-13	NC	09/17/09	CLR	N	N	N	MT-09-008
M2.G2.1.0005	2RPV-664-31-14	NC	09/17/09	CLR	N	N	N	MT-09-009
M2.G2.1.0006	2RPV-664-32-14	NC	09/17/09	CLR	N	N	N	MT-09-010
M2.G2.1.0007	2RPV-664-31-25	NC	09/18/09	CLR	N	N	N	MT-09-013
M2.G2.1.0008	2RPV-664-32-25	NC	09/18/09	CLR	N	N	N	MT-09-018
M2.G2.1.0009	2RPV-664-31-26	NC	09/18/09	CLR	N	N	N	MT-09-014
M2.G2.1.0010	2RPV-664-32-26	NC	09/18/09	CLR	N	N	N	MT-09-019
M2.G2.1.0011	2RPV-664-31-27	NC	09/18/09	CLR	N	N	N	MT-09-015
M2.G2.1.0012	2RPV-664-32-27	NC	09/18/09	CLR	N	N	N	MT-09-020
M2.G2.1.0013	2RPV-664-31-29	NC	09/18/09	CLR	N	N	N	MT-09-016
M2.G2.1.0014	2RPV-664-32-29	NC	09/18/09	CLR	N	N	N	MT-09-021
M2.G2.1.0015	2RPV-664-31-30	NC	09/18/09	CLR	N	N	N	MT-09-017

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.G2.1.0016	2RPV-664-32-30	NC	09/18/09	CLR	N	N	N	MT-09-022
M2.G2.1.0017	2RPV-664-31-31	NC	09/19/09	CLR	N	N	N	MT-09-011
M2.G2.1.0018	2RPV-664-32-31	NC	09/19/09	CLR	N	N	N	MT-09-012
M2.G3.1.0007	2NC2FW24-2	NC	09/14/09	CLR	N	N	N	PT-09-015
		NC	09/14/09	CLR	N	N	N	UT-09-053
M2.G3.1.0008	2NC2FW24-3	NC	09/14/09	CLR	N	N	N	PT-09-016
		NC	09/14/09	CLR	N	N	N	UT-09-054
M2.G6.2.0001	2PZR-Manway	NC	09/08/09	CLR	N	N	N	VT-09-202
M2.R1.11.0048	2NC2FW39-1	NC	09/21/09	CLR	Y	N	Y	UT-09-091 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.R1.11.0049	2NC2FW40-11	NC	09/23/09	CLR	Y	N	Y	UT-09-090 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.R1.11.0050	2NC2FW43-1	NC	09/17/09	CLR	Y	N	Y	UT-09-057 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.R1.11.0058	2SGB-OUTLET-W6SE	NC	09/10/09	CLR	Y	N	N	UT-09-056

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.R1.11.1532	2NV2FW27-2	NV	09/19/09	REC	N	Y	N	VE-09-009 Porosity, film artifact, excessive pen, acceptable after film review.
M2.R1.11.1539	2NV2FW10-6	NV	09/20/09	REC	N	Y	N	VE-09-010 Tungsten and film artifact acceptable per film review.
M2.R1.11.1540	2NV2FW35-6	NV	08/26/09	CLR	N	N	N	UT-09-043
M2.R1.11.1541	2NV2FW35-3	NV	08/26/09	CLR	N	N	N	UT-09-044
M2.R1.11.1543	2NV2FW294-23	NV	08/26/09	CLR	N	N	N	UT-09-045
M2.R1.11.1544	2NV2FW179-2	NV	08/26/09	CLR	N	N	N	UT-09-039
M2.R1.11.1563	2NV2FW183-12	NV	08/25/09	CLR	N	N	N	UT-09-038
M2.R1.11.1565	2NV2FW294-4	NV	08/26/09	CLR	N	N	N	UT-09-046
M2.R1.11.1566	2NV2FW180-1	NV	08/26/09	CLR	Y	N	Y	UT-09-042 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.
M2.R1.11.1663	2NC2FW13-3	NC	09/07/09	CLR	N	N	N	UT-09-047
M2.R1.11.1730	2NC2FW2-2	NC	09/11/09	CLR	Y	N	Y	UT-09-055 PIP M-09-7042 was written to document and determine the corrective action on the weld limitation for this exam.

4.1 Reportable Indications

There was no reportable indication for the examinations associated with this report period.

4.2 Corrective Action

Corrective action is action taken to resolve flaws and relevant conditions, including supplemental examinations, analytical evaluations, repair / replacement activities, and corrective measures. There was no corrective action for the examinations associated with this report period.

4.3 Corrective Measures

Corrective measures are actions (such as maintenance) taken to resolve relevant conditions, but not including supplemental examinations, analytical evaluations, and repair / replacement activities. Any corrective measures performed for examinations associated with this report period will be shown on the examination data sheets which are on file at the Duke Energy Carolina's Corporate Office in Charlotte, North Carolina.

4.4 Limited Examinations

Limitations (i.e., 90% or less of the required examination coverage obtained) identified for examinations associated with this report period are shown below. A relief request will be submitted to seek NRC acceptance of the limited coverage. This information will be on file at the Duke Energy Carolina's Corporate Office in Charlotte, North Carolina.

Item Number	PIP Number
M2.B3.110.0003	M-09-07042
M2.B3.110.0004	M-09-07042
M2.B3.110.0005	M-09-07042
M2.C1.30.0006	M-09-07042
M2.R1.11.0048	M-09-07042
M2.R1.11.0049	M-09-07042
M2.R1.11.0050	M-09-07042
M2.R1.11.1566	M-09-07042
M2.R1.11.1730	M-09-07042

5.0 Owner's Report for Repair / Replacement Activities

As required by the applicable code, records of Class 1 and Class 2 Repair and Replacement work is included on NIS-2 forms in this section.

No item was determined to have had work performed outside this report period.

The NIS-2 forms included in this section were completed for work performed during this report period. The individual work request documents and manufacturers' data reports are on file at McGuire Nuclear Station.

See Attachment A listing for Repair and Replacements for McGuire EOC-19.

Attachment A
2EOC19 NIS2 Report

W/O #	Class	Repair Description
571628-13	C	Replaced valve 2RN190.
571628-19	C	Made weld RN2FW9-20 and base metal repair weld number RN2FW9-53.
573895-03	A	Replaced disc and bonnet nuts on valve 2NI60.
583723-13	B	Added welds NV2FW10-20, 21, 23, NV1FW106-1, 2, 3, and 5 as well as flange #1 and its bolting material on welding iso MCFI-1NV106.
587554-12	B	Replaced item# 6 (3/8" rod and nuts), added items 24 and 25 on hanger 2MCA-ND-5022.
592073-02	B	Cut out valve 2BB4 and replaced, making welds BB2FW48-1, BB2FW48-2, BB2FW39-23, BB2FW39-28, and BB2FW39-29.
1738656-13	C	Replaced man-way bolting in Fuel Oil Storage Tank.
1738678-19	B	Replace valve 2NV1025
1748021-20	C	Replaced bolting material in flanges at 2RNFE5050 spool piece.
1750701-07	C	Replaced bonnet studs and nuts on valve 2RN30.
1750712-05	B	Replaced stud number four in hand hole number four for steam generator "A".
1774070-02	C	Replaced disc and bonnet studs and nuts in valve 2KC14.
1778193-01	B	Replaced bolting material in flange joint for 2NSFE5030.
1793380-06	B	Replaced plug in valve 1NV124.
1802402-02	B	Replaced bolting material in flange at 2NIFE5900.
1805006-05	C	Replaced wedge and bonnet bolting material (studs and nuts) on valve 2KC235.
1807622-01	C	Replaced solenoid valve bonnet assembly for valve 2VG65.
1810511-02	B	Replaced disc and bonnet in valve 2ND68.
1813314-07	B	Replaced bonnet nuts and inlet / outlet flange nuts on valve 2NV6.
1813348-01	C	Replaced solenoid valve bonnet assembly for valve 2VG65.
1826783-04	C	Replaced bonnet nuts in valve 2KF31.
1826783-11	C	Replaced relief valve 2KF31, made welds KF2FW21-4 & 5, KF2FW22-3 & 57 per ME201491.
1836913-06	B	Replaced four bolts in the lower bearing cover on valve 2RV32.
1836914-06	B	Replaced bolting in bearing cover in valve 2RV33.
1836915-05	B	Replaced bolting in bearing cover in valve 2RV76.
1836916-05	B	Replaced four bolts in the lower bearing cover on valve 2RV77.
1838298-07	C	Slotted holes in item #2 and installed washers on rods at slotted holes in hanger 2MCA-RN-4243.
1839237-01	B	Replaced A & B snubber on hanger 2MCA-SM-141.
1839636-02	B	Removed number 4 and 5 cone valve and replaced in snubber 2NC-HG-7.
1839801-07	B	Replaced bolting material on penetration E461A.
1839926-12	C	Replaced pivot pin and cap screw on hanger 2MCA-S-RN-500-1-A.
1840062-04	A	Replaced valve 2NC3 .
1840689-01	B	New studs and nuts were placed in flange at valve 2LD2.
1840723-02	C	Replaced disc and two plugs in valve 2LD2
1840800-03	B	Replaced soft seat disc in valve 2VI161.
1840808-04	C	Seal welded body to bonnet on valve 2NV472.
1841059-04	B	Replaced 2VS13 valve and its bolting material in flange.

1841060-05	B	Replaced valve 2VE11.
1841061-05	B	Replaced plate (disc) and bolting material in valve 2KC340.
1843149-02	B	Replaced plug in the bonnet of valve 2FW28.
1843465-04	C	Replaced solenoid valve 2VG5170 and piping welds VG2FWSV5170-1, 2, 3, & 4.
1846068-01	C	Modified hanger 2MCA-RN-3088 per ME202121
1847796-09	C	Relocate valve 2RN409 down 18" within piping and placed the operator in the vertical position, made welds RN1FW28-12 and RN2FW1-12.
1857866-08	B	Added piping and welds on discharge side of relief valve 2NI52 this included welds NI2FW50-46 & 47.
1857884-09	B	Added piping and welds on discharge side of relief valve 2NI63 this included welds NI2FW47-52 & 53.
1857892-08	B	Added piping and welds on discharge side of relief valve 2NI74 this included welds NI2FW48-38 & 39.
1858191-02	A	Replaced check valve 2NI169, seal welded bonnet, and welded nipples (weld numbers NI2FW52-15 and NI2FW57-2) in valve.
1860625-13	B	Added valve 2NV1074
1865829-31	B	Erected new support (2MCR-RV-4601) on the actuator for valve 2RV80.
1866202-28	B	Modified items 4 and 5, plus nut tack welded to load pin on hanger 2MCR-RV-4035.
1866738-06	A	Replaced 12 body to bonnet studs and 24 nuts on valve 2NV18.
1883553-21	A	Replaced 8 of 12 item #15s (1/2" bolts with washers) on hanger 2MCR-NV-4381.
1888236-01	A	Replaced two snubbers on hanger 2MCR-NV-4248.
1888268-01	C	Replaced degraded snubber on hanger 2MCA-NV-5008.
1888410-01	C	Replaced snubber on hanger 2MCA-NB-13.
1888411-01	A	Added a spacer plate between items one and seven on hanger 2MCR-NI-4103 per Mod# EC101855.
1888605-01	C	Replaced snubber on hanger 2MCA-KC-3282.
1889171-01	A	Removed lead in threads on #1 and 22 Reactor Head Closure Studs.
1889379-02	C	Replaced snubber on hanger 2MCA-KC-3321

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/6/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

571628-13 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RN - Nuclear Service Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2RN190	Fisher	BF215585	N/A	V File# V- 945	N/A	Removed	Yes
2RN190	Fisher	18253791	7552	Butterfly Valve	2008	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced valve 2RN190.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 16 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2RN9

Flow Diagram No(s).: MCFD-2574-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: ME201504, MCM 2205.06-0020.001

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date October, 6, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-25-09 to 10-7-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-7, 2009

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

1. Manufactured and certified by FISHER CONTROLS INT'L LLC, VALVE DIVISION, 205 S. CENTER STREET, MARSHALLTOWN, IA. 50158
(name and address of N Certificate Holder)

2. Manufactured for Duke Energy Carolinas, LLC, PO Box 37925, Charlotte, NC 28237
(name and address of Purchaser)

3. Location of installation McGuire Nuclear Station, 13225 Hagers Ferry Road, Hwy 73, Huntersville, NC 280778
(name and address)

4. Model No., Series No., or Type A21 Drawing GE34620 Rev. E CRN N/A

5. ASME Code, Section III, Division 1: 1986 (edition) 1988 (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve VALVE Nominal inlet size 16 (in.) Outlet size 16 (in.)

7. Material: Body SA351 CF8M Gasket Retainer SA240 S31600 Disk SA351 CF8M Bolting Studs--SA193 B8M CL 1 Nuts – SA194 8M

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Gasket Retainer Serial No.	(e) Disk Serial No.
18253791	7552	BF1340-1	757117-1	BF1339-1
			Studs Serial No.	Nuts Serial No.
			757122-1 thru -4	757121-1 thru -4

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

R F Law II 10-7-09

1912901

FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 18253791

8. Design conditions 135 (pressure) psi 150 (temperature) °F or valve pressure class N/A (1)

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 305 psi

11. Remarks: Design: ASME BPVC Sec III, Div 1, 1986 Edition, 1988 Addenda, Class 3
Other: ASME BPVC Sec III, Div 1, 1998 Edition, 1998 Addenda, Class 3

CERTIFICATION OF DESIGN

Design Specification certified by	Johnny F. Norris	P.E. State	SC.	Reg. no.	11577
Design Report certified by	N/A	P.E. State	N/A	Reg. no.	N/A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. 1929 Expires 10-27-2010

Date 6-18-08 Name FISHER CONTROLS INT'L LLC (N Certificate Holder) Signed Linda Ward (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Iowa and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 6-18-08 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the compment described in this Data Report. Furthermore, neither the inspector not his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-18-08 Signed Kurt Corbley (Authorized Inspector) Commissions NB 7881 NBA 822 IA. (Nat'l. Bd. (include. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 02635500
Reference : WO 00571628 12
Responsible: T. STEPHENS
Department : 10110

ISSUE TICKET
==========
78581300
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PRINTED 09/01/2009
08:48

Title : 2RN-190B INSP/REPAIR/REPLACE VALVE BODY

Deliver To : Valve Trailer Location

STAGE OUTAGE VALVE PARTS TRAILER

Cmp	Fac	GID	OU	Process	Project	Activity ID	Account	Sub Acct
DUK	MC	DK	MC02	RAOVLGN	M3824C	M3824C	0107000	

Reference
Percent
100.000000

Catalog ID	Location	Iss Qty	M/R Qty	Backlog	UI	Pck	Stg
0000861598 1	A L 04 020 002	1	1		EA		

VALVE, BUTTERFLY, CONTROL, 16", MCV-227, ASME/ANSI B16.34 CLASS 150, AIR ACTUATOR, WAFER, SS, ASME S A351 CF8M, SS, TEFZEL SEAL RING

UTC Nbr: 0001912901
Trace: M SN#18253791

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Issued By : R. OVERBECK
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Issue Date : 09/01/2009 Time: 08:47
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Received By: K. POTEAT JR
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FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/5/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

571628-19 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RN - Nuclear Service Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
RN Piping	Duke Energy	N/A	60	N/A	1982	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Made weld RN2FW9-20 and base metal repair weld number RN2FW9-53.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 92 PSI Test Temp. 69.6 °F

Description (Optional): test performed per procedure MP/0/A/7650/076.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 20 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2RN9

Flow Diagram No(s).: MCFD-2574-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: ME201504

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 5, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-25-09 to 10-6-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-6, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/9/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

573895-03 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NI - Safety Injection

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NI60	Walworth	A0139	206	Check Valve	1974	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced disc and bonnet nuts on valve 2NI60.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 2235 PSI Test Temp. 557 °F

Description (Optional): test performed per procedure MP/0/A/7650/076 which was performed under w/o 1840982-01 during the class "A" full temperature walk-down.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 10 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: MCFI-2NI18

Flow Diagram No(s).: MCFD-2562-02.00

Support/Restraint Sketch/Drawing No(s).: MCSRD-2NI-201-001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1205.00-0009

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 9, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-18-09 to 10-10-09 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-10, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 1 & 2 (Shared)

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

583723-13 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Unit 1 - NV Piping	Duke Energy	N/A	37	N/A	1981	Installed	Yes
Unit 2 - NV Piping	Duke Energy	N/A	80	N/A	1982	Installed	Yes
1NV414	ITT Grinnell	73-8013-6-2	WR701	N/A	1974	Removed	Yes

7. Description of Work Add New Component/Part/Appurtenance/Weld

Additional Description Added welds NV2FW10-20, 21, 23, NV1FW106-1, 2, 3, and 5 as well as flange #1 and its bolting material on welding iso MCFI-1NV1...

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 24 PSI Test Temp. 86 °F

Description (Optional): Removed valve 1NV414 and added piping and flanges. Test performed per procedure MP/0/A/7650/076.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 3 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2NV10 & MCFI-1NV106

Flow Diagram No(s).: MCFD-1554-05.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MD200467

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 2, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 7-8-09 to 10-3-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-3, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

587554-12 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System ND - Residual Heat Removal

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-ND-5022	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced item# 6 (3/8" rod and nuts), added items 24 and 25 on hanger 2MCA-ND-5022.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2ND22

Flow Diagram No(s).: MCFD-2561-01.00

Support/Restraint Sketch/Drawing No(s).: 2MCA-ND-5022, MCSRD-2NV-357.001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101855

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 02, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-22-09 to 10-2-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-2, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/9/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

592073-02 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System BB -

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2BB4	Borg Warner	9079	85	Gate Valve	1976	Removed	Yes
2BB4	Flowserve	02BLM	2271	Gate Valve	2008	Installed	Yes
BB Piping	Duke Energy	N/A	50	Piping	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Cut out valve 2BB4 and replaced, making welds BB2FW48-, BB2FW48-2, BB2FW39-23, BB2FW39-28, and BB2FW39-29.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 1079 PSI Test Temp. 87 °F

Description (Optional): test performed per procedure MP/0/A/7650/076.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2BB39 and 2BB48

Flow Diagram No(s).: MCFD-2580-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1205.00-0381.001

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 9, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 8-31-09 to 10-10-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-10, 20 09

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

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)

2. Manufactured for Duke Energy PO Box 37925 Charlotte, NC 28237
(name and address of Purchaser)

3. Location of installation McGuire Site 13225 Hagers Ferry (HWY 73) Huntersville, NC 28078-8985
(name and address)

4. Model No., Series No., or Type 1500# Gate Drawing 74450 Rev. C CRN N/A

5. ASME Code, Section III, Division 1: 1971 (edition) Summer 1973 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 2 (in.) Outlet size 2 (in.)

7. Material:
(a) valve Body SA182-F316 Bonnet SA182-F316 Disk SA351-CF8M Bolting N/A
(b) pump Casing _____ Cover _____ Bolting _____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
02BLM	2271	85511-4	94650-1	N9519-3

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

R
JF TAN II
10-10-89

1914856

2

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 02BLM

8. Design conditions 1200 (pressure) psi 567 (temperature) °F or valve pressure class 1500

9. Cold working pressure 3600 psi at 100°F

10. Hydrostatic test 5400 psi. Disk differential test pressure 3960 psi

11. Remarks: S.O. 47558-02
DRAIN PIPE MAT'L SA312-304 HEAT# 30601

CERTIFICATION OF DESIGN

Design Specification certified by R.E MILLER P.E. State SC Reg. no. 4237

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-1562 Expires 11-26-09

Date 7/31/08 Name Flowserve Corporation (N Certificate Holder) Signed _____ (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 7/31/08, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 7/31/08 Signed _____ (Authorized Nuclear Inspector) Commissions N813170 AN1 NC1549 [Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

1914856

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 02781805
Reference : WO 00592073 11
Responsible: T. STEPHENS
Department : 23473

ISSUE TICKET
81971300

PRINTED 08/24/2009
10:31

Title : 2BB-4B: PROCURE VLV/ACT.ASSEMBLY (SHOP)

Deliver To : On Site Delivery

AOV SHOP

Cmp	Fac	GID	OU	Process	Project	Activity ID	Account	Sub Acct
DUK	MC	DK	MC02	NAOVLGN			0530000	

Reference

Percent
100.000000

Catalog ID	Location	Iss Qty	M/R Qty	Backlog	UI	Pck Stg
0000225748 1	A L 05 005 002	1	1		EA	

VALVE, GATE, 2", 09J-234, 1200 LB @ 567 DEG F, AIR ACTUATOR, SW, SS, ASME SA182, F316, SS BONNET & INTERNALS

UTC Nbr: 0001914856
Trace: M PN#09J-234
M SN#02BLM

R/ IFI/AW II
10-10-09

Issued By : L. HOLLINS

Issue Date : 08/24/2009 Time: 10:31

Received By: T. STEPHENS

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/13/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1738656-13 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System FD - Diesel Generator Engine

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
FD System	Duke Energy	N/A	46	N/A	1981	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced man-way bolting in Fuel Oil Storage Tank.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): tank doesn't see pressure (with exception of head pressure). Volume only.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: Tank in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2609-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1201.04-0099

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 13, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-16-09 to 10-19-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-19, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1738678-19 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NV1025	Grinnell	83-54056-1-1	N/A	Gate Valve	2008	Removed	Yes
2NV1025	Crane	D7801	N/A	Gate Valve	2008	Installed	Yes
NV Piping	Duke Energy	N/A	80	NV Piping System	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replace valve 2NV1025

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 23 PSI Test Temp. 86 °F

Description (Optional): test performed per procedure MP/0/A/7650/076

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 4 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2NV180

Flow Diagram No(s).: MCFD-2554-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MD200467, made welds NV2FW180-44, 45, 46, & 61

MCM 1205.01-0928.001

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 2, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 7-7-09 to 10-3-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-3, 2009

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

1. Manufactured and certified by CRANE Nuclear, Inc., 860 Remington Boulevard, Bolingbrook, IL 60440
   (name and address of N Certificate Holder)
2. Manufactured for Duke Energy Corporation, PO Box 1006, Charlotte, NC 28201-1015
   (name and address of purchaser)
3. Location of installation McGuire Nuclear Station, 13225 Hagers Ferry Rd. HWY 73, Huntersville, NC 28078-8985
   (name and address)
4. Model No., Series No., or Type 47-1/2UF-SPL Drawing CC04251 Rev. C CRN N/A
5. ASME Code, Section III, Division 1: 1998 (edition) 2000 (addenda date) 2 (class) -- (Code Case no.)
6. Pump or valve Gate Valve Nominal inlet size 4" (in.) Outlet size 4" (in.)
7. Material:

   (a) valve Body Casting SA351 CF8M Bonnet Cover SA351 CF8M Disk SA351 CF8M Bolting SA193 B8M SA194 8M
   (b) pump Body Casting ____ Bonnet Cover ____ Disk Bolting ____ Bolting ____

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
D7801	N/A	D7802	D7805	D8050

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E00037) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Duke Energy Carolinas, LLC
PO # 00102878
Item # 0001

1917712

FORM NPV-1 (Back) --- Pg. 2 of 2

Certificate Holder's Serial No. D7801

8 Design conditions 220 (pressure) psi 189 (temperature) °F or valve pressure class 150Class (1)

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 ✓ psi. Disk differential test pressure 305 ✓ psi

11. Remarks: Bonnet Stud Heat # 726887 ✓
Nut, Bonnet Stud Heat # 731944 ✓
PO No. 00102878 PO Item # 0001, Duke Item 05B-826
CNI S/O 32918-01

CERTIFICATION OF DESIGN

Design Specifications certified by Barry S Howell P.E. State NC Reg. no. 18943

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2899 Expires September 24, 2008 *
* With letter of extension that expires October 24, 2008

Date 09/25/08 Name CRANE Nuclear, Inc. (N Certificate Holder) Signed John E Sirovatka (John E Sirovatka)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by HSBCT of Hartford, CT have inspected the pump, or valve, described in this Data Report on 09/25/08 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 09/25/08 Signed (Todd Ward) Commissions Illinois 1903 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

1917 1917712

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 02735226
Reference : WO 01738678 02
Responsible: P. CADENHEAD
Department : 11300

ISSUE TICKET
==========
03251300
==========

PRINTED 06/25/2009
08:25

Title : MD200467/2NV1025/DISASSEMBLE VALVE 2NV1025

Deliver To : Stage Location

WAREHOUSE 1A

Cmp	Fac	GID	OU	Process	Project	Activity ID	Account	Sub Acct
DUK	MC	DK	MC02	NMMODGN	EM200467M	EM200467M	0530000	

Reference
Percent
100.000000

Catalog ID	Location	Iss Qty	M/R Qty	Backlog	UI	Pck Stg
0000857156 1	A L 08 004 001	1	1		EA	

VALVE, GATE, 4", 05B-826, ANSI 150, MANUAL, BW, SS
, SA351, CF8M, SS W/NON-COBALT HF

UTC Nbr: 0001917712
Trace: S SN#D7801

9-3-09

==========
Issued By : R. OVERBECK
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Issue Date : 06/25/2009 Time: 08:25
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Received By: L. TENNANT III
==========

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1748021-20 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RN - Nuclear Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
RN Piping	Duke Energy	N/A	60	N/A	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bolting material in flanges at 2RNFE5050 spool piece.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045,

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 18 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2574-01.01

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist JR Grass Date October, 2, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-25-09 to 10-3-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-3, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/30/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1750701-07 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RN - Nuclear Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2RN30	Walworth	C58137	497	Check Valve	1975	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bonnet studs and nuts on valve 2RN30.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 18 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2RN18

Flow Diagram No(s).: MCFD-2574-01.01

Support/Restraint Sketch/Drawing No(s).: MCSRD-2RN-351-001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 30, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-24-09 to 10-2-09 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-2, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/13/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1750712-05 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NC - Reactor Coolant

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Steam Generator "A"	B & W	770002	159	N/A	1996	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced stud number four in hand hole number four for steam generator "A".

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Functional test performed per w/o 1840982 / 01 (Class A walk-down).

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: * in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2553-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

* Bolting material on component (Steam Generator "A")

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 13, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-20-09 to 10-19-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-19, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 6/23/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1774070-02 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System KC - Component Cooling

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer & Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2KC14	Walworth	C57453	267	V File# 580	1974	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced Disc and bonnet studs and nuts in valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Visual functional verified no leakage

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 16 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2573-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Support FL Grass Date 6/25/, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 10-30-07 to 6-24-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 6-24, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 2/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1778193-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NS - Containment Spray

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
NS Piping	Duke Energy	N/A	69	N/A	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bolting material in flange joint for 2NSFE5030.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed on work order 1836416-01 per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 10 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2563-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: bolting replaced per procedure MP/0/A/7650/001.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date 2/2/, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 1-28-09 to 2-2-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 2-2-, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/7/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address) — 1793380-06 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NV124	Fisher	5921347	741	Globe valve	1975	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced plug in valve 1NV124.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Maintance visual functional

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2NV195

Flow Diagram No(s).: MCFD-2554-02.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 6, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-18-09 to 10-7-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-7, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/12/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1802402-02 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NI - Safety Injection

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
NI Piping	Duke Energy	N/A	83	N/A	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bolting material in flange at 2NIFE5900.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. *Remarks (Should Include the Following Information, as Applicable):* Sheet 2 of 2

Component Line Size: 10 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2562-02.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1210.06-0078.004

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date October, 12, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-17-09 to 10-12-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-12, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/4/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1805006-05 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System KC - Component Cooling

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2KC235	Walworth	C61676	755	Gate Valve	1976	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced wedge and bonnet bolting material (studs and nuts) on valve 2KC235.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2KC31

Flow Diagram No(s).: MCFD-2573-03.01

Support/Restraint Sketch/Drawing No(s).: MCSRD-2KC-201

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 4, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-28-09 to 10-5-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-5, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/13/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1807622-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System VG - Diesel Generator Engine Starting Air

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VG65	Valcor	12	36	Solenoid Valve	1976	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced solenoid valve bonnet assembly.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045 on work order 1807622-02.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2VG-4

Flow Diagram No(s).: MCFD-2609-04.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 13, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 6-23-09 to 9-14-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-14, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/4/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1810511-02 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System ND - Residual Heat Removal

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2ND68	Kerotest	MB3-20	9852	Globe Valve	1976	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced disc and bonnet in valve 2ND68.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2ND6

Flow Diagram No(s).: MCFD-2561-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1205.01-0081

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 4, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-15-09 to 10-5-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-5, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/9/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1813314-07 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NV6	Dresser	1912-30J	1988	Relief Valve	2006	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bonnet nuts and inlet / outlet flange nuts on valve 2NV6.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 3 X 4 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2NV178

Flow Diagram No(s).: MCFD-2554-01.02

Support/Restraint Sketch/Drawing No(s).: MCSRD-2NV-201-002

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1205.10-0106

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date October, 9, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-13-09 to 10-10-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-10, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/13/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1813348-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System VG - Diesel Generator Engine Starting Air

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VG65	Valcor	15	39	Solenoid Valve	1976	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced solenoid valve bonnet assembly.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045 on work order 1813348-02.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2VG-5

Flow Diagram No(s).: MCFD-2609-04.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 13, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 8-4-09 to 9-14-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-14, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 3/18/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1826783-04 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System KF - Spent Fuel Cooling

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
KF31	Dresser	TJ76566	1962	Valve	1993	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bonnet nuts in valve 2KF31.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per visual functional.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable):

Component Line Size: * see below in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2570-01.01

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: * 2" intake and 3" discharge

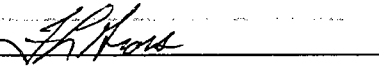
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

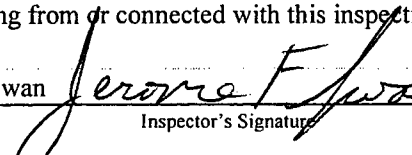
Signed FL Grass, Quality Assurance Technical Specialist  Date 3/18/, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 3-3-09 to 3-19-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan  Commissions NC1524, N-1

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

Date 3-19, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/13/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1826783-11 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System KF - Spent Fuel Cooling

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2KF31	Dresser	TD36178	194	Relief Valve	1976	Removed	Yes
2KF31	Dresser	TJ-76566	1962	Relief Valve	1993	Installed	Yes
KF Piping	Duke Energy	N/A	81	Piping System	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced relief valve 2KF31, made welds KF2FW21-4 & 5, KF2FW22-3 & 57 per ME201491.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 140 PSI Test Temp. 76.8 °F

Description (Optional): Test performed per procedure MP/0/A/7650/076.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: * see below in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2KF21 v& 22

Flow Diagram No(s).: MCFD-2570-01.01

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: * 2" intake and 3" discharge.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 13, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 8-27-09 to 9-14-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-14, 20 09

Industrial Valves | DRESSER

Alexandria, Louisiana USA

FORM NV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*
(AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION III, DIV. 1)

1. MANUFACTURED BY Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations
Intersection Hwy. 167 & 3225 North, Alexandria, LA 71309-1430
(Name and Address of N Certificate Holder)

2. MANUFACTURED FOR Duke Power Company, P. O. Box 1015, Charlotte, NC 28201
(Name and Address of Purchaser or Owner)

3. LOCATION OF INSTALLATION Duke Power Co., McGuire Nuc. Station, Cowans Ford, NC 28216
(Name and Address)

4. _____ (CRN) NC3058 (Drawing No.) 1962 (Natl. Brd. No.) 1993 (Year Built)

5. VALVE 2-1905-30J/S4-2-XNC3058 (Model No., Series No.) IDENTIFYING NOS. TJ-76566 (N Certificate Holders' Serial No.)
TYPE Safety Relief (Safety; Safety Relief; Pilot; Power Actuated) CLASS 3
ORIFICE SIZE 1.380 Inch NOMINAL INLET SIZE 2 Inch OUTLET SIZE 3 Inch

6. SET PRESSURE (PSIG) 150 RATED TEMPERATURE Sat
STAMPED CAPACITY 11,837 #/Hr. Steam @ 10 % OVERPRESSURE BLOWDOWN (PSIG) 15
HYDROSTATIC TEST (PSIG) INLET ** See Below OUTLET *** See Below
(Applicable to valves for closed systems only)

7. PRESSURE RETAINING PIECES

	SERIAL NO. OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	ACF81	SA351 Gr. CF8M
BONNET OR YOKE	ACF99	SA351 Gr. CF8M
SUPPORT RODS		
NOZZLE	ACF50	SA182 Gr. F316
DISC	ACF80	SA479 Type 316
SPRING WASHERS		
ADJUSTING SCREW		
SPINDLE		
SPRING		
BOLTING STUDS	AAU/QT26	SA453 Gr. 660
OTHER PIECES		
Nuts	AAS/PE35/NL68	SA194 Gr. 6

** Base 450 PSIG
Disc 4500 PSIG
Nozzle 4500 PSIG

*** Bonnet 1125 PSIG

SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8½ x 11", (2) INFORMATION IN ITEMS 1 & 2 ON THIS DATA REPORT IS INCLUDED ON EACH SHEET, AND (3) EACH SHEET IS NUMBERED AND NUMBER OF SHEETS IS RECORDED AT TOP OF THIS FORM.

RF ANSI 9-14-C

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1, 1971 EDITION, ADDENDA Summer 1973, CODE CASE NO. N/A.

DATE 4-21-93 SIGNED See Line 1 BY _____
(N Certificate Holder)

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1747 TO USE THE NV
(NV)

SYMBOL EXPIRES May 20, 1995
(Date)

CERTIFICATE OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, LA
STRESS ANALYSIS REPORT (CLASS I ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY[1] R. E. Miller
PE STATE North Carolina REG. NO. 4860
STRESS REPORT CERTIFIED BY [1] _____
PE STATE _____ REG. NO. _____

[1]SIGNATURE NOT REQUIRED - LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM BOILER I & I COMPANY OF HARTFORD, CONN, HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 4-26, 1993, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE N CERTIFICATE HOLDER HAS CONSTRUCTED THIS PUMP, OR VALVE, IN ACCORDANCE WITH THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 4-26, 19 93

SIGNED B C. Dole COMMISSIONS VA1779 "A" N, LA864

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1836913-06 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RV - Containment Ventilation Cooling Water

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2RV32	Fisher	8308B-1A	371	Butterfly Valve	1999	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced four bolts in the lower bearing cover on valve 2RV32.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 12 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2RV30

Flow Diagram No(s).: MCFD-2604-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: ME201981

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 2, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 10-2-09 to 10-3-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-3, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/26/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1836914-06 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RV - Containment Ventilation Cooling Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2RV33	Fisher Posi-Seal	49789-2B	223	N/A	1990	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bolting in bearing cover

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 12 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2RV30

Flow Diagram No(s).: MCFD-2604-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: ME201981

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 26, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-25-09 to 9-27-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-27-, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/26/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1836915-05 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RV - Containment Ventilation Cooling Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2RV76	Fisher Posi-Seal	49789-2C	224	N/A	1990	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bolting in bearing cover

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 12 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2RV21

Flow Diagram No(s).: MCFD-2604-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: ME201981

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 26, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-25-09 to 9-27-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F Swan Commissions NC1524, N-1

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

Date 9-27-09, 20

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1836916-05 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RV - Containment Ventilation Cooling Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2RV77	Fisher	49789-2D	225	Butterfly Valve	1990	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced four bolts in the lower bearing cover on valve 2RV77.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure MP/0/A/7700/045.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 12 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2RV30

Flow Diagram No(s).: MCFD-2604-03.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: ME201981

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date October, 2, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 10-2-09 to 10-3-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-3, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/29/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1838298-07 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RN - Nuclear Service Water

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-RN-4243	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld

Additional Description Slotted holes in item# 2 and installed washers on rods at slotted holes.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): hanger is located on valve 2RN190.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 20 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: MCFI-2RN9

Flow Diagram No(s).: MCFD-2574-03.00

Support/Restraint Sketch/Drawing No(s).: 2MCA-RN-4243 MCSRD-2RN-357

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC96991

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 29, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-28-09 to 9-30-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-30, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/14/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1839237-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System SM - Main Steam

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-SM-141	Duke Energy	15449	N/A	Snubber	N/A	Removed	No
2MCA-SM-141	Duke Energy	22375	N/A	Snubber	N/A	Removed	No
2MCA-SM-141	Duke Energy	197	N/A	Snubber	N/A	Installed	No
2MCA-SM-141	Duke Energy	19912	N/A	Snubber	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced A & B Snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable):

Component Line Size: 36 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: N/A

Support/Restraint Sketch/Drawing No(s).: 2MCA-SM-H141 and MCSRD-2SMA-003

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 14, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 8-31-09 to 9-16-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-16, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/20/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1839636-02 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NC - Reactor Coolant

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NC-HG-7	Duke Energy	7	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Removed number 4 and 5 cone valve and replaced in snubber.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: N/A in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: N/A

Support/Restraint Sketch/Drawing No(s).: MCM 1117.03-0053.001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: Lisega Snubber

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 20, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-10-09 to 9-21-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-21-, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 12/3/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1839801-07 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System MC - Metal Containment

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Penetration E461A	Duke Entergy	N/A	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced bolting material on penetration E461A.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☑ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Test performed per procedure PT/2/A/4200/001P. Ref PIP# M-09-06188 procedure MP/0/A/7700/045 was not needed due to prior work.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 20 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: N/A

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MC2921-03.00 & MC2678-01.02

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date 12/3/, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 10-5-09 to 12-8-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 12-8, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/20/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address) — 1839926-12 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name) — Type Code Symbol Stamp: N/A

526 South Church Street, Charlotte, NC 28201-1006 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RN - Nuclear Service Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-S-RN-500-1-A	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced pivot pin and cap screw on hanger.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 3 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2574-2.1

Support/Restraint Sketch/Drawing No(s).: 2MCA-S-RN-500-01-A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 20 , 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-15-09 to 9-21-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-21-, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/9/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1840062-04 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NC - Reactor Coolant

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NC3	Crosby	N56925-00-0001	25	Relief Valve	1974	Removed	Yes
2NC3	Crosby	N56925-00-0008	524	Relief Valve	1978	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced 2NC3 valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 2235 PSI Test Temp. 557 °F

Description (Optional): test performed per procedure MP/0/A/7650/076 which was performed under w/o 1840982-01 during the class "A" full temperature walk-down.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 6 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: MCFI-2NC53 (inlet) and MCFI-2NC59 (outlet)

Flow Diagram No(s).: MCFD-2553-02.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1205.090001001

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date October, 9, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-22-09 to 10-10-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F Swan Commissions NC1524, N-1

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

Date 10-10, 2009

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44C
As required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-86-BP Order No N300580J Contract Date 3/25/76 National Board No. 524

2. Manufactured For Duke Power Co., Charlotte, No. Carolina Order No. A 33957
Name and Address

3. Owner Duke Power Co., 422 South Church St., Charlotte, North Carolina 28201
Name and Address

4. Location of Plant McGuire Nuclear Station Unit, Cowans Ford, North Carolina

5. Valve Identification SPARE - 2 Serial No. N56925-00-0008 Drawing No. DS-C-56925 Rev. C

Type Safety Orifice Size M Pipe Size - Inlet 6 Outlet 6
Safety, Safety Relief, Pilot, Power Actuated — Inch — Inch — Inch — Inch

6. Set Pressure (PSIG) 2485 700 F
Rated Temperature

Stamped Capacity 420006 lbs./hr. Sat. 3 % Overpressure ____ Blowdown ~~(PSIG)~~ 5% of S.P.

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750 psig

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971, Addenda Date Winter 1972, Case No. ____

Pressure Containing or Pressure Retaining Components

a. Castings	Serial No. Identification	Material Specification Including Type or Grade
Body	N90397-33-0008	ASME SA351 Gr. CF8M
Bonnet	N90353-44-0125	ASME SA105
b. Bar Stock and Forgings		
Bellows K56383-40-0035	N90356-42-0035	Inconel Alloy 718
Nozzle	N90399-35-0010	ASME SA182 Gr. F316
Disc Insert	N90426-36-0023	Haynes Stellite Alloy No. 6B
Spring Washers K56380-42-0090	N90350-37-0180 N90350-37-0161	ASME SA105
Adjusting Bolt	N90351-44-0140	ASTM A193-70 Gr. B6 ASME SA193 Gr. B6
Spindle K56381-45-0141	N90354-51-0145	ASTM A193-73 Gr. B6 ASME SA193 Gr. B6

RI-1 Apx II
10-10-89

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring K56380-42-0090	NX2761-0090	ASTM A304-76 51B60H
d. Bolting		
e. Other Parts such as Pilot Components		
Bonnet Stud	87589	ASTM A193 Gr. B7
Bonnet Nut	2371	ASTM A197 CL.24

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

Date 3-7 19 78 Signed Crosby Valve & Gage Co. By [signature]
Manufacturer

Certificate of Authorization No. 1878 expires September 30, 1980

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on 3/13 19 78 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date 3/13 19 78 NB 7325

[signature] Commissions MA 1269
(Inspector) National Board, State, Province and No.

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/12/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1840689-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System FW - Refueling Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
FW Piping	Duke Energy	N/A	54	Flange at valve 2FW76	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description New studs and nuts were placed in flange.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Testing exempt due to system being open to atmosphere during outage - flange to be removed at end of outage.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 8 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2571-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: Bolting replaced in flange at valve 2FW76 during outage to assure isolation during 2EOC19 outage for system isolation.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FR Grass Date 9/12, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-5-09 to 9-13-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-13, 2009

FORM NPV-1 (back)

8. Remarks Material: Gasket Retainer: SA564-630-1075: ID. Code: TXY.

9. Design conditions 1169 (pressure) psi 680 (temperature) °F or valve pressure class 800 (1)

10. Cold working pressure 1920 psi at 100°F

11. Hydrostatic test 2900 psi. Disk differential test pressure 2112 psi

CERTIFICATION OF DESIGN

Design Specification certified by F. A. Bensinger P.E. State PA Reg. no. PE-31002-E

Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N1712 Expires 4/15/01

Date 12-4-00 Name Flowserve Corp. (N Certificate Holder) Signed R L Belter (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~or Province~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 9-16 to 12-14-00, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 12-14-00 Signed Charles Young (Authorized Inspector) Commissions NB 5447N Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

256

(1) For manually operated valves only.

TIB1A81

Facility : MC
Warehouse : 2
Mtl Rqst : 02781573
Reference : WO 01860625 14
Responsible: P. CADENHEAD
Department : 11300

ISSUE TICKET
38102300

PRINTED 09/12/2009
08:21

Title : MD200467/2NV1074/FABRICATE DRAIN RIG AND DRAIN VLV ASSEMBLY

Deliver To : Warehouse Pickup

Catalog ID	Location	Iss Qty	M/R Qty	Backlog	UI	Pck	Stg
0000149441 1	A I 01 002 000	3	3		FT		
	PIPE, 1", SS, ASME SA376, TP304, PLAIN ENDS, SEAMLESS, SCH 80, ANSI B36.10, 1001B4AB1F0B010, B, ASME SECTION III SUBSECTION NC						
	UTC Nbr: 0001944140 Trace: M HT#458093						
0000459170 1	A D 03 027 001	1	1		EA		
	VALVE, GATE, SPLIT WEDGE, 1-1/2", 09G-2007, ASME/ANSI B16.34 CLASS 800, MANUAL, SW, SS, ASME SA351, CF8M, NON-COBALT						
	UTC Nbr: 0001028224 Trace: M SN#E371A-3-2						

Rec'd AWL 9-27-09

Issued By : L. HOLLINS

Issue Date : 09/12/2009 Time: 08:20

Received By: K. NALLEY

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/29/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1865829-31 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System RV - Containment Ventilation Cooling Water

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCR-RV-4601	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld

Additional Description Erected new support (2MCR-RV-4601) on the actuator for valve 2RV80.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 6 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: MCFI-2RV21

Flow Diagram No(s).: MCFD-2604-03.00

Support/Restraint Sketch/Drawing No(s).: 2MCR-RV-4601 MCSRD-2RV-205-001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC99746

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 29, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-27-09 to 10-2-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-2-, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/29/2009

526 South Church Street, Charlotte, NC, 28201 — Sheet 1 of 2
Address

2. Plant McGuire Nuclear Station — Unit 2
Name

12700 Hagers Ferry Road, Huntersville, NC 28078 — 1866202-28
Address — Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.)

3. Work Performed by Duke Energy Carolinas, LLC — Type Code Symbol Stamp: N/A
Name

526 South Church Street, Charlotte, NC 28201-1006 — Authorization No.: N/A
Address

Expiration Date: N/A

4. Identification of System RV - Containment Ventilation Cooling Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCR-RV-4035	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Modified items 4 and 5, plus nut tack welded to load pin on hanger 2MCR-RV-4035.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 6 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2604-03.00

Support/Restraint Sketch/Drawing No(s).: 2MCR-RV-4035 / MCSRD-2RV-205-001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC99746

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 29, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-27-09 to 10-2-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-2, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/9/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1866738-06 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NV18	Walworth	A0661	250	Check valve	1974	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced 12 body to bonnet studs and 24 nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure 2235 PSI Test Temp. 557 °F

Description (Optional): test performed per procedure MP/0/A/7650/076 which was performed under w/o 1840982-01 during the class "A" full temperature walk-down.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 3 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: MCFI-2NV229

Flow Diagram No(s).: MCFD-2554-01.02

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCM 1205.00-0004

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date October, 9, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-17-09 to 10-10-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-10, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 10/2/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1883553-21 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCR-NV-4381	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced 8 of 12 item# 15s (1/2" bolts with washers) on hanger 2MCR-NV-4381.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: MCFI-2NV282

Flow Diagram No(s).: MCFD-2554-01.01

Support/Restraint Sketch/Drawing No(s).: 2MCR-NV-4381, MCSRD-2NV-209-001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date October, 2, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-27-09 to 10-3-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 10-3, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/28/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1888236-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCR-NV-4248	Duke Energy	10082	N/A	N/A	N/A	Removed	No
2MCR-NV-4248	Duke Energy	37059	N/A	N/A	N/A	Installed	No
2MCR-NV-4248	Duke Energy	7246	N/A	N/A	N/A	Removed	No
2MCR-NV-4248	Duke Energy	37060	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced two snubbers on hanger 2MCR-NV-4248.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable):

Component Line Size: * in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: MCFI-2NV294

Flow Diagram No(s).: MCFD-2554-03.00

Support/Restraint Sketch/Drawing No(s).: 2MCR-NV-4248

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCSRD-2NV-210-002

* hanger is installed on valve 2NV248 and the piping is one inch in diamater.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist  Date September, 28, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-17-09 to 9-28-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F Swan Commissions NC1524, N-1

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

Date 9-28, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/25/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1888268-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NV - Chemical and Volume Control

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-NV-5008	Duke Entergy	2635	N/A	N/A	N/A	Removed	No
2MCA-NV-5008	Duke Energy	37061	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced degraded snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 3 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2554-01.01

Support/Restraint Sketch/Drawing No(s).: 2MCA-NV-5002 rev 3

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCSRD-2NV-350-002

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 25, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-17-09 to 9-27-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F Swan Commissions NC1524, N-I

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

Date 9-27, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/21/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1888410-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NB - Boron Recycle

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-NB-13	Duke Energy	14852	N/A	N/A	N/A	Removed	No
2MCA-NB-13	Duke Energy	36703	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced snubber on hanger 2MCA-NB-13.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 4 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: N/A

Support/Restraint Sketch/Drawing No(s).: 2MCA-NB-H013

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist FL Grass Date September, 21, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-17-09 to 9-21-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-21, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/30/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1888411-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System NI - Safety Injection

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCR-NI-4103	Duke Energy	N/A	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Added a spacer plate between items one and seven on hanger 2MCR-NI-4103 per Mod# EC101855.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 2 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2562-03.00

Support/Restraint Sketch/Drawing No(s).: 2MCR-NI-4103, MCSRD-2NI-209-001

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101855

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 30, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-25-09 to 10-2-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F Swan Commissions NC1524, N-1

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

Date 10-2, 2009

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/21/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1888605-01 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System KC - Component Cooling

5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-KC-3282	Duke Energy	3242	N/A	N/A	N/A	Removed	No
2MCA-KC-3282	Duke Energy	37543	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced snubber on hanger 2MCA-KC-3282.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 10 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: N/A

Support/Restraint Sketch/Drawing No(s).: 2MCA-KC-3282

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 21, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-18-09 to 9-22-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-22-, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/28/2009

526 South Church Street, Charlotte, NC, 28201 — Sheet 1 of 2

Address

2. Plant McGuire Nuclear Station — Unit 2

Name

12700 Hagers Ferry Road, Huntersville, NC 28078 — 1889171-01

Address — Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.)

3. Work Performed by Duke Energy Carolinas, LLC — Type Code Symbol Stamp: N/A

Name — Authorization No.: N/A

526 South Church Street, Charlotte, NC 28201-1006 — Expiration Date: N/A

Address

4. Identification of System NC - Reactor Coolant

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
NC Piping	Duke Energy	N/A	82	N/A	1982	Installed	Yes
Reactor Vessel	Rotterdam	30664	N/A	N/A	1974	Corrected	Yes

7. Description of Work Defect Removal

Additional Description Removed lead in threads on #1 and 22 Reactor Head Closure Studs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☑ Exempt ☐ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional): Functional test performed per w/o 1840982 / 01 (Class A walk-down).

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: * in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2553-01.00

Support/Restraint Sketch/Drawing No(s).: N/A

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101955

* Reactor Head Studs - drawing MCM 2201.01-0106.001

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 28, 20 09

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9/27/09 to 9/29/09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9/29, 20 09

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner Duke Energy Carolinas, LLC — Date 9/25/2009

526 South Church Street, Charlotte, NC, 28201 (Address) — Sheet 1 of 2

2. Plant McGuire Nuclear Station (Name) — Unit 2

12700 Hagers Ferry Road, Huntersville, NC 28078 (Address)

1889379-02 (Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.))

3. Work Performed by Duke Energy Carolinas, LLC (Name)

526 South Church Street, Charlotte, NC 28201-1006 (Address)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System KC - Component Cooling

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer and Winter Addenda, N/A Code Case

(b) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-KC-3321	Duke Energy	2364	N/A	N/A	N/A	Removed	No
2MCA-KC-3321	Duke Energy	37047	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description replaced snubber on hanger 2MCA-KC-3321

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operation Pressure ☐ Exempt ☑ Other ☐ Pressure ____ PSI Test Temp. ____ °F

Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2

Component Line Size: 6 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s).: N/A

Flow Diagram No(s).: MCFD-2573-01.01

Support/Restraint Sketch/Drawing No(s).: 2MCA-KC-3321

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: MCSRD-2KC-367-001

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed FL Grass, Quality Assurance Technical Specialist Date September, 25, 2009

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 9-24-09 to 9-28-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

JF Swan Jerome F. Swan Commissions NC1524, N-1

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

Date 9-28, 2009

6.0 ***Pressure Testing***

Second Period – Third 10-Year Interval

Table 6-1 shows the number of Class A (Category B-P), Class B (Category C-H), and Risk Informed Segment (Category R-A) pressure tests zones completed during refueling cycle EOC-19. There was no through-wall leakage observed during these pressure tests.

Table 6-1 Outage Specific Summary		
Examination Category	***Test Requirement***	***Total Zones Completed EOC19***
B-P	System Leakage Test (IWB-5220)	1
C-H	System Leakage Test (IWC-5220)	4
R-A	Risk Informed VT-2 for Socket Welds	2

Table 6-2 shows a completion status for the number of pressure test zones conducted during the second period of the third ten-year interval.

Table 6-2 Second Period Specific Summary				
Examination Category	***Test Requirement***	***Total Zones Required For This Period***	***Total Zones Credited For This Period***	***(%) Zones Complete For This Period***
B-P	System Leakage Test (IWB-5220)	3	2	66.67 %
C-H	System Leakage Test (IWC-5220)	35	8	22.86 %
R-A	System Leakage Test	6	4	66.67 %

Table 6-3 shows the specific Class A (Category B-P) and Risk Informed (Category R-A) pressure test zones completed during refueling cycle EOC-19. Table 6-3 also shows the Class B (Category C-H) pressure test zones completed during the second period. All data was retrieved from the Pressure Test Data Management System.

Table 6-3 EOC19/Second Period Completion Listing		
Zone Description	**Period /Outage**	**Final VT-2 Date**
Class A		
2NC-001L-A	EOC19	12/8/2009
Class B		
2BB-074L-B	2nd Period	10/9/2009
2NC-001L-A	2nd Period	4/10/2008
2NI-012L-B	2nd Period	4/8/2008
2NI-013L-B	2nd Period	4/8/2008
2NI-014L-B	2nd Period	4/3/2008
2NI-060L-B	2nd Period	10/5/2009
2NM-026L-B	2nd Period	10/9/2009
2NV-008L-B	2nd Period	10/4/2009
Risk Informed		
2NC-001L-A	EOC19	12/8/2009
2RI-001L-B	EOC19	12/8/2009

Section 6 Prepared By:	Date:
Jim Baughman	12/8/09

Section 6 Reviewed By:	Date:
Dennis E Calhoun	12-8-09