



Steven D. Capps
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Serial No: MNS-16-004

January 7, 2016

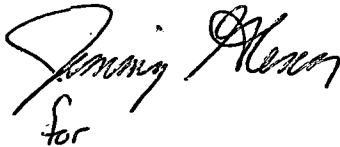
U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Duke Energy Carolinas, LLC
McGuire Nuclear Station Unit 2
Docket Number 50-370
Inservice Inspection Report
End of Cycle 23 Refueling Outage

In accordance with ASME Section XI, attached is the Inservice Inspection Report for the End of Cycle 23 Refueling Outage for McGuire Nuclear Station, Unit 2. This is the first outage of the First Inspection Period of the Fourth Ten Year Interval.

If you have any questions or require additional information, please contact P. T. Vu at (980) 875-4302.

Sincerely,



for

Steven D. Capps

Attachment

AD47
NRR

U. S. Nuclear Regulatory Commission
January 7, 2016
Page 2

xc:

Catherine Haney, Region II Administrator
U. S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, GA 30303-1257

Ed Miller, Project Manager
U. S. Nuclear Regulatory Commission
11555 Rockville Pike
Mail Stop 0-8 G9A
Rockville, MD 20852-2738

John Zeiler
NRC Senior Resident Inspector
McGuire Nuclear Station

ATTACHMENT

FORM NIS-1 OWNER'S DATA 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 Hagers Ferry Road Huntersville, N.C. 28078-9340
 (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			_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8½ 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: 351

FORM NIS-1 (Back)

- 8. Examination Dates April 24, 2014 to October 09, 2015
- 9. Inspection Period Identification: First Period
- 10. Inspection Interval Identification: Fourth Interval
- 11. Applicable Edition of Section XI 2007 Addenda 2008
- 12. Date/Revision of Inspection Plan: May 28, 2015 / Revision 1
- 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 Section 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 January 6 20 16 Signed Duke Energy Carolinas By [Signature]
Owner

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 of Province of North Carolina employed by HSB Global Standards have inspected the components described in this Owners' Report during the period April 24, 2014 to October 09, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owners' 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, test, and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[Signature] Commissions NB11473 N.C. 1524, N,I,NS
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-6-2016

HSB Global Standards
200 Ashford Center North
Suite 205
Atlanta, GA. 30338-4860
(800) 417-3721

**OWNER'S REPORT
FOR
INSERVICE INSPECTIONS**

MCGUIRE UNIT 2

**2015 REFUELING OUTAGE
EOC 23 (OUTAGE 1)**

Location: McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, North Carolina 28078-9340

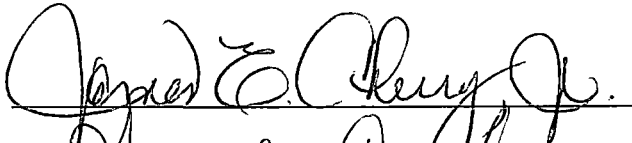
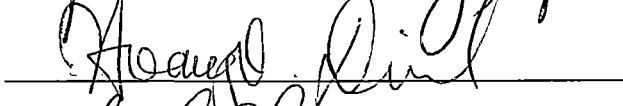
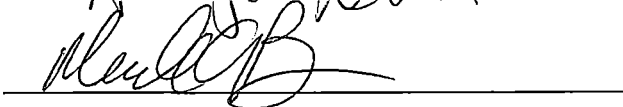
NRC Docket No. 50-370

National Board No. 84

Commercial Service Date: March 1, 1984

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

Revision 0

Prepared By:		Date	<u>01/06/2014</u>
Reviewed By:		Date	<u>01/06/2016</u>
Approved By:		Date	<u>01/06/2016</u>

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c/o ANII at McGuire
5. State of North Carolina Department of Labor
c/o J. M. Givens, Jr.
6. McGuire Nuclear Station
Site ISI Program Manager

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1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's McGuire Nuclear Station Unit 2 during Outage 1 / EOC 23. This is the first outage of the First Inspection Period of the Fourth Ten Year Interval. ASME Section XI, 2007 Edition with the 2008 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 Reference Documents

The following reference documents may apply to the inservice inspections performed during this report period. A copy may be obtained by contacting the ISI Program Owner at Duke Energy Corporation's McGuire Nuclear Station in Huntersville, North Carolina.

Code Case N-648-1 Alternative Requirements for Inner Radius Examination of Class 1 Reactor Vessel Nozzles, Section XI, Division 1

Code Case N-665 Alternative Requirements for Beam Angle Measurements using Refracted Longitudinal Wave Search Units

Code Case N-685 Lighting Requirements for Surface Examinations, Section XI, Division 1

Code Case N-695 Qualification Requirements for Dissimilar Metal Piping Welds, Section XI, Division 1

Code Case N-700 Alternative Rules for Selection of Classes 1, 2 and 3 Vessel Welded Attachments for Examination Section XI, Division 1 (Categories B-K, CC, and D-A)

Code Case N-706 Alternative Examination Requirements of Table 1WB-2500-1 and Table IWC-2500-1 for PWR Stainless Steel Residual and Regenerative Heat Exchangers. Applicable to Examination Category C-A, Residual Heat Removal Heat Exchangers 2A and 2B and the Regenerative Heat Exchanger

Code Case N-722-1 Additional Examinations for PWR Pressure Retaining Welds in Class 1 Components Fabricated with Alloy 600/82/182 Materials, Section XI, Division 1, 10 CFR Part 50, Federal Register, final rule was issued September 10, 2008 mandates the use of this code case

Code Case N-729-1 Alternative Examination Requirements for PWR Reactor Vessel Upper Heads with Nozzles Having Pressure Retaining Partial Penetration Welds Section XI, Division 1, 10CFR Part 50, Federal Register, final rule was issued September 10, 2008 mandates the use of this code case

Code Case N-770-1 Alternative Examination Requirements and Acceptance Standards for Class 1PWR Piping and Vessel Nozzle Butt Welds Fabricated with UNS N06082 or UNS W86182 Weld Filler Material with or without Application of Listed Mitigation Activities, Section Xi, Division 1, ASME approval date December 25, 2009

Relief Request 13-MN-002 Risk Informed Inservice Inspection Program Submittal

Relief Request 11-MN-002 To Extend the Inservice Inspection Interval for the Reactor Vessel Examination Category B-A and B-D Welds

The following NCRs were written to address UT Examinations with limited coverage, VT Examinations with discrepancies requiring engineering evaluation, and Pressure Testing Examinations performed during this refueling outage:

NCR No. 01954197 (Summary No. M2.R1.11.3049)
NCR No. 01955356 (Summary No. M2.G9.1.0001)
NCR No. 01955274 (Summary No. M2.G9.1.0002)
NCR No. 01955401 (Summary No. M2.G9.1.0003)
NCR No. 01955064 (Summary No. M2.G9.1.0005)
NCR No. 01955307 (Summary No. M2.G9.1.0006)
NCR No. 01954096 (Summary No. M2.G13.1.0001)
NCR No. 01954107 (Summary No. M2.G13.1.0002)
NCR No. 01954204 (Summary No. M2.G13.1.0003)
NCR No. 01955373 (Summary No. M2.G13.1.0004)
NCR No. 01952945 (Summary No. M2.F1.10.0019)
NCR No. 01949930 (Summary No. M2.F1.20.0034)
NCR No. 01952568 (Summary No. M2.F1.20.0173)
NCR No. 01953354 (Summary No. M2.F1.20.0179)
NCR No. 01944240 (Summary No. M2.F1.30.0002)
NCR No. 01944262 (Summary No. M2.F1.30.0110)
NCR No. 01944266 (Summary No. M2.F1.30.0166)
NCR No. 01952208 (Summary No. M2.F1.40.0080)
NCR No. 01953184 (PT Zone Number 2NI-016L-B)
NCR No. 01960353 (PT Zone Number 2NV-004L-B)

2.0 Fourth Ten-Year Interval Inspection Status

The completion status of inspections required by the 2007 ASME Code Section XI through the 2008 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 inspections are also included.

During the McGuire Fourth 10 Year Interval, piping welds will be examined under the risk-informed / safety-based (RIS_B) Inservice Inspection Program. The RIS_B Program is based on the ASME Code Case N-716, "Alternative Piping Classification and Examination Requirements, Section XI, Division 1" (Code Case N-716). Code Case N-716 is founded in large part on the risk-informed inservice inspection (RI-ISI) process as described in the Electric Power Research Institute (EPRI) Topical Report (TR) – 112657, Revision B-A, "Revised Risk-Informed inservice Inspection Evaluation Procedure" (Adams Accession No. ML013470102). Relief Request 13-MN-002 was submitted to the NRC seeking approval to incorporate the Risk-Informed Program into the Fourth 10 Year Inservice Inspection Interval for McGuire Units 1 and 2. The NRC approval was granted per Safety Evaluation Report dated July 14, 2014. ASME Code Examination Categories B-F, B-J, C-F-1, and C-F-2 will now be incorporated into the new Risk-Informed Examination Category R-A.

Class 1 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Total Population</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i>¹Deferral/Allowed</i>
B-A	Pressure Retaining Welds in Reactor Vessel	14	14	0	0%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	8	5	0	0%	No
B-D	Full Penetration Welded Nozzles in Vessels Inspection Program B	40	40	2	5%	Partial
B-F	Reference Risk-Informed Program Examination Category R-A, R1. Items					
B-G-1	Pressure Retaining Bolting Greater than 2 " in Diameter	245	233	72	30.90%	Yes

Class 1 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Total Population</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i>¹Deferral Allowed</i>
B-G-2	Pressure Retaining Bolting 2" and Less in Diameter	48	19	9	47.37%	No
B-J	Reference Risk-Informed Program Examination Category R-A, R1. Items					
B-K	Welded Attachments for Piping, Pumps and Valves	7	3	1	33.33%	No
B-L-2	Pump Casings	4	1	0	0%	Yes
B-M-2	Valve Body > 4 in. Nominal Pipe Size	27	9	1	11.11%	Yes
B-N-1	Interior of Reactor Vessel	1	3	1	33.33%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	3	3	0	0%	Yes
B-N-3	Removable Core Support Structures	1	1	0	0%	Yes

Class 1 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Total Population</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i>¹Deferral Allowed</i>
B-O	Pressure Retaining Welds in Control Rod Housings	24	3	0	0%	Yes
B-P	All Pressure Retaining Components		REFERENCE SECTION 6.0 OF THIS REPORT			
B-Q	Steam Generator Tubing		NA Reference General Requirements Section 3.1			

¹Deferral 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-2411 (a).

Class 2 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Total Population</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>
C-A	Pressure Retaining Welds in Pressure Vessels	17	9	1.67	18.56%
C-B	Pressure Retaining Nozzle Welds in Vessels	42	9	2	22.22%
C-C	Welded Attachments for Vessels, Piping, Pumps and Valves	90	12	1	8.33%
C-D	Pressure Retaining Bolting Greater Than 2" in Diameter	N/A	N/A	N/A	N/A

Class 2 Inspections

Examination Category	Description	Total Population	Inspections Required	Inspections Completed	Percentage Completed
C-F-1	Reference Risk-Informed Program Examination Category R-A, R1. Items				
C-F-2	Reference Risk-Informed Program Examination Category R-A, R1. Items				
C-H	All Pressure Retaining Components		REFERENCE SECTION 6.0 OF THIS REPORT		

Class 1 and 2 Component Supports

Examination Category	Description	Total Population	Inspections Required	Inspections Completed	Percentage Completed
F-A (F1.10/F1.40)	Class 1 Piping Supports and Supports other than Piping Supports	209	69	14	20.29%
F-A (F1.20/F1.40)	Class 2 Piping Supports and Supports other than Piping Supports	938	219	43	19.63%

Risk Informed Inservice Inspection Program Class 1, 2, and 3 Piping

<i>Examination Category</i>	<i>Description</i>	<i>Total Population</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>
R-A	Class 1, 2, and 3 Piping Examinations	1234	131	20	15.27%

Augmented / Elective Inspections

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.

<i>Summary Number</i>	<i>Description</i>	<i>Percentage Complete</i>
M2.B15.80	Bare Metal Visual Inspection by VT-2 of BMI Nozzles per CCN-722-1	100% of Outage 1 / EOC23 Requirements Met
M2.B4.10	Bare Metal Visual Inspection by VT-2 of RPV Head per CC N-729-1	100% of Outage 1 / EOC23 Requirements Met
M2.B4.20	Volumetric/Surface Examination of the RPV Head Partial Penetration Weld Nozzles per CC N-729-1	No examinations required for Outage 1 / EOC23
M2.G1.1	Reactor Coolant Pump Flywheel Inspection Program (TS 5.5.7)	100% of Outage 1 / EOC23 Requirements Met
M2.G2.1	RPV Closure Head Studs and Nuts per Nuclear Guide 1.65	No examinations required for Outage 1 / EOC23
M2.G3.1	Pipe Rupture Protection	100% of Outage 1 / EOC23 Requirements Met
M2.G6.2	Bare Metal Visual Inspection of the Pressurizer Manway Diaphragm Seal Weld per NRC Bulletin 2004-01	100% of Outage 1 / EOC23 Requirements Met
M2.G9.1	Volumetric Examination of Chemical and Volume Control (ND) System Mixing Tees to detect Thermal Fatigue Cracking per EPRI MRP-192	100% of Outage 1 / EOC23 Requirements Met

Augmented / Elective Inspections

Summary Number	Description	Percentage Complete
M2.G10.1	Volumetric Examination of the Auxiliary Head Adapter (AHA) Welds per CCN-770-1	No examinations required for Outage 1 / EOC23
M2.G11.1	VT-1 Examination of the Reactor Vessel Internal Clevis Insert Fastners per UFSAR 18.2.16	No examinations required for Outage 1 / EOC23
M2.G12.1	Volumetric (UT) Examination per CC N-770-1, Item F	No examinations required for Outage 1 / EOC23
M2.G13.1	Volumetric (UT) Examination of base metal to detect Thermal Fatigue Cracking per EPRI MRP-146, Revision 1	100% of Outage 1 / EOC23 Requirements Met
M2.G14.1	Visual (VT) Examination of the Reactor Vessel Internals per EPRI MRP-227-A	No examinations required for Outage 1 / EOC23
M2.G16.1	Volumetric (UT) Examination of the Reactor Vessel Closure Head Thermal Sleeves per requirements of Westinghouse Technical Bulletin TB-07-2, Revision 1	No examinations required for Outage 1 / EOC23

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, and Augmented Examinations credited for this report period.

DUKE ENERGY
Augmented Inspection Program
Plan Report

McGuire 2, 4th Interval (EOC-23)

ScheduleWorks

This report includes all changes through addendum 4MNS2-004

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category AUG									
M2.B15.80.0001	2-RPV-BMI-NOZZLES Class 1 NC	MC-ISIN4-2553-01.00 MPI01A17150-165	NDE-69		Inconel/SS		N/A / N/A		

Inconel Transition Weld to Stainless Steel Tube

Note 4th Interval: CC N-722-1 requires exam every other outage but will be scheduled every outage per PIP G-11-978 CA#2 per RV Engineer. Exam requirements listed below:

Beginning with 2EOC21, bare metal visual examination by a qualified VT-2 inspector of all the BMI nozzles per the requirements of ASME Code Case N-722-1. The bare metal visual examination shall include an inspection of the bottom head and Alloy 600 transition weld between the Alloy 600 tube and the stainless steel tube. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group. For additional information on this change see PIP G-11-0978 CA#8 and Plan Addendum 2MNS-078. No QA-513J was originated for the changes being made per the PIP.

The Comments shown below will be retained for historical purposes for the examinations performed prior to PIP G-11-0978, CA #8 which led to the origination of Plan Addendum 2MNS-078:

Bare Metal Visual Inspection by VT-2 qualified inspector of the BMI Nozzles per the requirements 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 beginning 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).

These augmented examinations are being added to the ISI Plan per QA-513-J Form, Tracking Number ER-MNS-10-03, initiated by C.A. Cruz of the Materials and NDE Services Group. All bottom mounted instrument (BMI) nozzles and transition welds will be examined every refueling outage instead of every other outage outlined in ER-MNS-09-01.

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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Category AUG

M2.B4.10.0001	2RPV-Head Class 1 NC	MC-ISIN4-2553-01.00 MCM 2201.01-0021 001	NDE-70						----
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RV Closure Head

This note added to begin 4th Interval:

Last exam performed in 3rd Interval / 2EOC20. Schedule EOC23 and EOC26 at direction of HVD during plan development for 4th Interval.

History comments from 3rd Interval:

As specified in ASME Code Case N-729-1, a direct visual examination of the bare metal surface of the entire outer surface of the head, including essentially 100% of the intersection of each nozzle with the head (J-groove). For coverage requirements see Figure 1 of Code Case N-729-1. For additional information reference QA-513J (ER-MNS-09-06). Acceptance criteria specified in ASME Code Case N-729-1 subject to the 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. If EDY<8 and no flaws unacceptable for continued service have been detected, the reexamination frequency 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 VE is not completed. Last Bare Metal Visual occurred during 2EOC17, so next full bare metal visual will be due in 2EOC20, provided EDY remains less than 8 and IWA-2212 VT-2 visuals are performed in every outage these VE's are not. EDY Calculation will continue to be updated and if EDY greater than or equal to 8 these VE's will be required every refueling outage, with no flexibility. Schedule Flexibility: Time between inspections may be shortened, but not lengthened. For additional information, contact Rachel Doss in the Materials and NDE Services Section, Nuclear Technical Services Division. This inspection replaces Augmented examinations M2.G5.1.0001 and M2.G5.2.0004 required by NRC Order EA-03-009. Once licensee implements this requirement the First Revised NRC Order EA-03-009 no longer applies and is deemed to be withdrawn.

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
M2.G1.1.0001	2RCP-2A Class 1 NC	MCM 1201.01-7 MC-ISIN4-2553-01.00 MCM 1201.01-0080	54-ISI-117	UT	CS		NA / NA	TBD	G01.001.001, G01.001.001A

Category AUG

History from 3rd Interval:

REACTOR COOLANT PUMP FLYWHEEL AUGMENTED EXAMINATION. REFERENCE NRC LETTER DATED AUGUST 5, 2004 AMENDMENT NO. 205 TO RENEW FACILITY OPERATING LICENSE NPF-17. THIS AMENDMENT REVISES TS 5.5.7 REACTOR COOLANT PUMP FLYWHEEL INSPECTION PROGRAM TO INCREASE THE INSPECTION INTERVAL FROM 10 TO NOT EXCEED 20 YEARS. PER NOTE FROM STEVE ROSENAU DATED 10/29/2004 THE SCHEDULE IS AS FOLLOWS: 2RCP-2A WILL BE DONE 2EOC-24, LAST UT EXAM 3/28/1999 (ON 2A PUMP), 2RCP-2B WILL BE DONE 2EOC-22, LAST UT EXAM 1/1/1996 (ON 1D PUMP), 2RCP-2C WILL BE DONE 2EOC-24, LAST UT EXAM 9/23/1999 (ON 1C PUMP), 2RCP-2D WILL BE DONE 2EOC-24, LAST UT EXAM 6/10/1998 (ON 1B PUMP) IT SHOULD BE NOTED THAT THE FLYWHEELS HAVE BEEN MOVED AROUND AND EXAMINATION DATE MAY NOT APPLY TO THE CURRENT PUMP LOCATION. THESE OUTAGES EXCEPT 2EOC-22 (3RD INTERVAL) WILL BE PART OF THE FOURTH INTERVAL AND THEY MUST BE INCLUDED WHEN THE ISI PLAN IS WRITTEN. NOTE: ANY REACTOR COOLANT PUMP REMOVED FROM SERVICE BEFORE THIS TIME SHOULD BE EXAMINED BEFORE REMOVAL, PSI DONE ON THE REPLACEMENT AND THE SCHEDULE WILL BE RECALCULATED FOR THE NEW 20 YEAR EXAMINATION DATE.

Note: Scheduling for this pump in 4th Interval was based on note from 3RD interval above.

M2.G13.1.0001	Cold Leg 2D Nozzle 4-1 Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-045 2NCP 82	NDE-995	UT	SS	160	0.281 / 1.500	50202	Risk Segment NC-027 ---
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circumferential

Nozzle to Pipe

This examination is added per QA-513J Form initiated by Greg Shipley of the McGuire Civil Design/DB Group to meet the requirements of EPRI MRP-146, Revision 1. Reference QA Tracking Number ER-MNS-12-02 (QA-513J with Attachment A) for details of the areas to be examined. Perform a volumetric (UT) examination of the base metal to detect thermal fatigue cracking. The area to be examined is the 1-1/2" Boron Injection Line from the RCS Cold Leg 2D Nozzle 4-1 toward Valve 2NI0021. The UT examination to be performed will cover an approximately 1" wide band out from the toe of butt Weld No. NC2FW45-5 and along the bottom of the 1-1/2" Boron Injection Line for a length of 6.75" toward Valve 2NI0021. This exam is to be performed every outage starting with M2EOC21 for the life of the plant. For additional information contact Greg Shipley of the McGuire Civil Design/DB Group. Reference PIP M-09-0217, Action No. 9.

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category AUG									
M2.G13.1.0002	Crossover Leg 2A Nozzle 1-6 Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-047	NDE-995	UT	SS	160	0.344 / 2.000	8279-0410	Risk Segment NC-020
Circumferential									
Elbow to Pipe									
This examination is added per QA-513J Form initiated by Greg Shipley of the McGuire Civil Design/DB Group to meet the requirements of EPRI MRP-146, Revision 1. Reference QA Tracking Number ER-MNS-12-03 (QA-513J with Attachment A) for details of the areas to be examined. Perform a volumetric (UT) examination of the base metal to detect thermal fatigue cracking. The area to be examined is the 2" RCS Drain Line from the RCS Crossover Leg 2A Nozzle 1-6 toward Valve 2NC0004. The UT examination to be performed will cover a length approximately 1" from the toe of fillet Weld No. NC2FW47-14. This exam is to be performed every other outage starting with M2EOC21 for the life of the plant. For additional information contact Greg Shipley of the McGuire Civil Design/DB Group. Reference PIP M-09-0217, Action No. 9.									
M2.G13.1.0003	Cold Leg 2D Nozzle 4-5 Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-026 2NCP 32/ 2NCP 28	NDE-995	UT	SS	160	0.438 / 3.000	50225	
Circumferential									
Elbow to Pipe									
This examination is added per QA-513J Form initiated by Greg Shipley of the McGuire Civil Design/DB Group to meet the requirements of EPRI MRP-146, Revision 1. Reference QA Tracking Number ER-MNS-12-04 (QA-513J with Attachment A) for details of the areas to be examined.. Perform a volumetric (UT) examination of the base metal and weld to detect thermal fatigue cracking. The area to be examined is the 3" Alt. Charging Line from the RCS Cold Leg 2D Nozzle 4-5 toward Valve 2NV0018. The UT examinations to be performed will cover butt Weld No. NC2FW26-7, the base metal at the bottom of the pipe 13.5" from the tangent plane, and the elbow bend base metal using the bottom of the horizontal pipe to indicate how far to examine (Reference Subassembly 2NCP28/2NCP32). This exam is to be performed every outage starting with M2EOC21 for the life of the plant. For additional information contact Greg Shipley of the McGuire Civil Design/DB Group. Reference PIP M-09-0217, Action No. 9.									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2	
Category AUG										
M2.G13.1.0004	Cold Leg 2A Nozzle 1-3 Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-026 2NCP 30	NDE-995	UT	SS	160	0.438 / 3.000	50225	---	
			Elbow to Pipe							
			This examination is added per QA-513J Form initiated by Greg Shipley of the McGuire Civil Design/DB Group to meet the requirements of EPRI MRP-146, Revision 1. Reference QA Tracking Number ER-MNS-12-05 (QA-513J with Attachment A) for details of the areas to be examined.. Perform a volumetric (UT) examination of the base metal and welds to detect thermal fatigue cracking. The area to be examined is the 3" Charging Line from the RCS Cold Leg 2A Nozzle 1-3 toward Valve 2NV0015. The UT examination to be performed will cover butt Weld Nos. NC2FW26-10 and NC2FW26-3, the base metal at the bottom of the pipe beginning at Weld No. NC2FW26-3 and running a total length of 13.5" toward Valve 2NV0015 (Reference Subassembly 2NCP-30), and the elbow base metal down to in line with the bottom of horizontal pipe to Weld No. NC2FW26-3. This exam is to be performed every outage starting with M2EOC21 for the life of the plant. For additional information contact Greg Shipley of the McGuire Civil Design/DB Group. Reference PIP M-09-0217, Action No. 9.							
M2.G3.1.0004	2NC2FW16-1 Class 1 NC	MCFI-2NC16 MC-ISIN4-2553-01.00	NDE-35	PT	SS		1.000 / 10.000		G03.001.001, G03.001.001A	
	Circumferential		Elbow to Nozzle							
			Pipe Rupture Protection. Reference Document SRG-78-001 REV.2 (DISTRIBUTION CODE MADM-257).							
M2.G3.1.0004	2NC2FW16-1 Class 1 NC	MCFI-2NC16 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-M	G03.001.001, G03.001.001A	
	Circumferential							PDI-UT-2-M1		
			Elbow to Nozzle							
			Pipe Rupture Protection. Reference Document SRG-78-001 REV.2 (DISTRIBUTION CODE MADM-257).							

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category AUG									
M2.G6.2.0001	2PZR-Manway Class 1 NC	MCM 1201.01-140	NDE-68 VT-2 Pressurizer Manway Pressurizer Manway Diaphragm Seal Weld. Bare Metal Visual Exam by VT-2 qualified Inspector. Examine the gap between the Pressurizer Manway Cover and Manway for evidence of diaphragm plate seal weld leakage. Examine every outage. (For responsible individual, contact J.M. Shuping, Alloy 600 Engineer Nuclear Technical Services). ER-MNS-07-02 used to install in plan. Reference ELL for Duke Response to NRC for commitment to NRC Bulletin 2004-01. Letted dated July 27, 2004.						---
M2.G9.1.0001	2ND17-TEE Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND17	NDE-998 UT Perform volumetric exam on Unit 2 ND mixing Tees (both trains) to identify evidence of thermal fatigue cracking per MRP-192 using NDE Procedure NDE-998. (Iso MCFI 2ND-17) Inspect from the first Tee toward the first elbow downstream of Valve 2ND29 (toward NC Loop 1 and 2 Cold Legs). Up to three (3) components will be inspected. They are the Tee and spool piece and possibly the elbow. The total distance to be inspected must be at least 32 inches. Examination schedule to begin EOC-23 then every six (6) years. Ensure associated inspection WO's include resourced contingency tasks for material replacement. Ref PIP M-14-9793. For additional information contact site Thermal Fatigue Program Manager. Ref. AD-EG-ALL-1704 Attachment 1 Form (ER-MNS-08-01, Rev 2)		SS		0.250 / 8.000	50309	---
M2.G9.1.0002	2ND11-TEE Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND11	NDE-998 UT Perform volumetric exam on Unit 2 ND mixing Tees (both trains) to identify evidence of thermal fatigue cracking per MRP-192 using NDE Procedure NDE-998. (Iso MCFI 2ND-11) Inspect from the first Tee downstream of Valve 2ND14 (Branch side of Tee toward NC Loop 3 & 4 Cold Legs) to and including the attached 45 degree elbow and as much of the straight pipe to make a total distance of 32 inches. Three (3) components will be inspected. They are the Tee, elbow and spool pipe. Examination schedule to begin EOC-23 then every six (6) years. Ensure associated inspection WO's include resourced contingency tasks for material replacement. Ref PIP M-14-9793. For additional information contact site Thermal Fatigue Program Manager. Ref. AD-EG-ALL-1704 Attachment 1 Form (ER-MNS-08-01, Rev 2)		SS		0.250 / 8.000	50309	---

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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Category AUG

M2.G9.1.0003	2ND18-TEE Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND18	NDE-998	UT	SS		0.250 / 8.000	50309	---
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Perform volumetric exam on Unit 2 ND mixing Tees (both trains) to identify evidence of thermal fatigue cracking per MRP-192 using NDE Procedure NDE-998.

Examination shall include the following:

1. (Iso MCFI 2ND18) Inspect the first Tee downstream of Valve 2ND34 and the piping exiting the Tee on the run side for a distance of 32 inches from the centerline of the Tee.
2. (Iso MCFI 2ND18) Inspect the piping on the branch side of the Tee to and including the next elbow headed toward valve 2ND15 and a sufficient length of straight pipe to account for a total length of 32 inches from the centerline of the Tee. The components are the Tee, the elbow and pipe spool piece.

Examination schedule to begin EOC-23 then every six (6) years. For additional information contact site Thermal Fatigue Program Manager.

Ref. AD-EG-ALL-1704, Attachment 1 Form (ER-MNS-08-01, Rev. 2)

M2.G9.1.0005	2ND3-2ND4B-Valve Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND3	NDE-998	UT	SS		0.250 / 14.000	50218	---
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Perform volumetric exam on Unit 2 ND mixing Tees (both trains) to identify evidence of thermal fatigue cracking per MRP-192 using NDE Procedure NDE-998.

(Iso MCFI 2ND3) Inspect the 14" piping downstream of Valve 2ND4B where the 3" recirculation piping tees into the 14" pipe. Inspect the 14 inch piping from the center of the 3 inch branch line for a distance of 2 feet downstream.

Examination schedule to begin EOC-23 then every six (6) years.

Ensure associated inspection WO's include resourced contingency tasks for material replacement. Ref PIP M-14-9793.

For additional information contact site Thermal Fatigue Program Manager.

Ref. AD-EG-ALL-1704 Attachment 1 Form (ER-MNS-08-01, Rev 2)

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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Category AUG

M2.G9.1.0006	2ND3-2ND19A-Valve Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND3	NDE-998	UT	SS		0.250 / 14.000	50218	
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Perform volumetric exam on Unit 2 ND mixing Tees (both trains) to identify evidence of thermal fatigue cracking per MRP-192 using NDE Procedure NDE-998.
 (Iso MCFI 2ND3) Inspect the 14" piping downstream of Valve 2ND19A where the 3" recirculation piping tees into the 14" pipe. Inspect the 14 inch piping from the center of the 3 inch branch line for a distance of 2 feet downstream. Examination schedule to begin EOC-23 then every six (6) years. Ensure associated inspection WO's include resourced contingency tasks for material replacement. Ref PIP M-14-9793. For additional information contact site Thermal Fatigue Program Manager. Ref. AD-EG-ALL-1704 Attachment 1 Form (ER-MNS-08-01, Rev 2)

End of Report

STATISTICS ONLY	Class 1	10	Class 2	0	Class 3	0	Total by Class	10	Systems	15	Total Count	15
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DUKE ENERGY
Inservice Inspection Program
Plan Report

ScheduleWorks

McGuire 2, 4th Interval (EOC-23)

This report includes all changes through addendum 4MNS2-004

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-D									
M2.B3.140.0001	2SGA-INLET Class 1 NC	MCM 2201.01-0216 MCM 2201.01-0207 MCM 2201.01-0052.001	NDE-680	UT	CS		6.500 / NA	50235	B03.140.001

Circumferential

Nozzle To Head
STEAM GENERATOR 2A INLET NOZZLE TO LOWER HEAD. Y1-X2 QUADRANT. (INSIDE RADIUS SECTION).

M2.B3.140.0002	2SGA-OUTLET Class 1 NC	MCM 2201.01-0216 MCM 2201.01-0207 MCM 2201.01-0052.001	NDE-680	UT	CS		6.500 / NA	50235	B03.140.002
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Circumferential

Nozzle To Head
STEAM GENERATOR 2A OUTLET NOZZLE TO LOWER HEAD. Y2-X2 QUADRANT. (INSIDE RADIUS SECTION).

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.10.0036	2RPV-664-32-01 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.001
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0037	2RPV-664-32-02 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.002
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0038	2RPV-664-32-03 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.003
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.10.0039	2RPV-664-32-04 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.004
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0040	2RPV-664-32-05 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.005
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0041	2RPV-664-32-06 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.006
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.10.0042	2RPV-664-32-07 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.007
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0043	2RPV-664-32-08 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.008
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						
M2.B6.10.0044	2RPV-664-32-09 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.009
			RV Closure Head Nut REACTOR VESSEL CLOSURE HEAD NUT.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0001	2RPV-664-31-44 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0002	2RPV-664-31-45 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0003	2RPV-664-31-01 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0004	2RPV-664-31-04 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0005	2RPV-664-31-05 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0006	2RPV-664-31-06 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0007	2RPV-664-31-07 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0008	2RPV-664-31-08 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0009	2RPV-664-31-09 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0010	2RPV-664-31-10 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0011	2RPV-664-31-11 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0012	2RPV-664-31-46 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0013	2RPV-664-31-47 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0014	2RPV-664-31-48 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0015	2RPV-664-31-49 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0016	2RPV-664-31-12 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0017	2RPV-664-31-13 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0018	2RPV-664-31-14 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0019	2RPV-664-31-15 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0020	2RPV-664-31-54 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0021	2RPV-664-31-16 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0022	2RPV-664-31-17 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0023	2RPV-664-31-36 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0024	2RPV-664-31-37 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0025	2RPV-664-31-50 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0026	2RPV-664-31-51 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0027	2RPV-664-31-52 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0028	2RPV-664-31-53 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0029	2RPV-664-31-02 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0030	2RPV-664-31-03 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0031	2RPV-664-31-38 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0032	2RPV-664-31-39 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0033	2RPV-664-31-40 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0034	2RPV-664-31-41 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0035	2RPV-664-31-18 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0036	2RPV-664-31-19 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0037	2RPV-664-31-20 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0038	2RPV-664-31-21 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0039	2RPV-664-31-22 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

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.B6.20.0040	2RPV-664-31-23 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0041	2RPV-664-31-24 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0042	2RPV-664-31-25 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0043	2RPV-664-31-26 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0044	2RPV-664-31-27 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0045	2RPV-664-31-28 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0046	2RPV-664-31-29 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0047	2RPV-664-31-30 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0048	2RPV-664-31-31 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0049	2RPV-664-31-32 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0050	2RPV-664-31-33 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0051	2RPV-664-31-34 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.20.0052	2RPV-664-31-35 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0053	2RPV-664-31-42 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						
M2.B6.20.0054	2RPV-664-31-43 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	---
			RV Closure Head Stud REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.50.0001	2RPV-664-33-01 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.001
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0002	2RPV-664-33-02 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.002
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0007	2RPV-664-33-03 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.003
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.50.0008	2RPV-664-33-04 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.004
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0009	2RPV-664-33-05 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.005
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0010	2RPV-664-33-06 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.006
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-1									
M2.B6.50.0011	2RPV-664-33-07 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.007
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0012	2RPV-664-33-08 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.008
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						
M2.B6.50.0013	2RPV-664-33-09 Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.050.009
			RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-2									
M2.B7.10.0001	2-RPV-CONOSEAL-1 Class 1 NC	MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK		NA / NA		---
			<p>Conoseal Bolting</p> <p>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.</p>						
M2.B7.10.0002	2-RPV-CONOSEAL-2 Class 1 NC	MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK		NA / NA		---
			<p>Conoseal Bolting</p> <p>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.</p>						
M2.B7.10.0003	2-RPV-CONOSEAL-3 Class 1 NC	MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK		NA / NA		---
			<p>Conoseal Bolting</p> <p>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.</p>						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-2									
M2.B7.10.0004	2-RPV-CONOSEAL-4 Class 1 NC	MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK		NA / NA		---
			<p>Conoseal Bolting</p> <p>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.</p>						
M2.B7.10.0005	2-RPV-CONOSEALS-5 Class 1 NC	MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK		NA / NA		---
			<p>Conoseal Bolting</p> <p>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.</p>						
M2.B7.20.0001	2PZR-MWB Class 1 NC	MCM 2201.01.015 MC-ISIN4-2553-02.00 MCM 1201.01-0048	NDE-62	VT-1	CS		1.875 / NA		B07.020.001
			<p>PZR Manway Bolting</p> <p>PRESSURIZER MANAWAY BOLTING (16 BOLTS). EXAMINE ALL BOLTING MATERIAL. Stud length = 7.500</p>						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-2									
M2.B7.50.0001	2NC53-FL1 Class 1 NC	MCFI-2NC53 MC-ISIN4-2553-02.00	NDE-62	VT-1	SS		1.375 / NA		B07.050.001
			Flange Bolting						
			FLANGE BOLTING (12 STUDS). BOLT SIZE DETERMINED USING MP/0/A/7650/01 ENCLOSURE 13.2. EXAMINE ALL FLANGE BOLTING MATERIAL. Stud length = 10.250"						
M2.B7.50.0004	2NV255-FL1 Class 1 NV	MCFI-2NV255 MC-ISIN4-2554-01.01	NDE-62	VT-1	SS		1.000 / NA		B07.050.100
			Flange Bolting						
			FLANGE BOLTING (4 STUDS). BOLTING SIZE DETERMINED USING MP/0/A/7650/01 ENCLOSURE 13.2. EXAMINE ALL FLANGE BOLTING MATERIAL. Stud length = 10.250"						
M2.B7.50.0005	2NV264-FL1 Class 1 NV	MCFI-2NV264 MC-ISIN4-2554-01.00	NDE-62	VT-1	SS		1.000 / NA		B07.050.101
			Flange Bolting						
			FLANGE BOLTING (4 STUDS). BOLTING SIZE DETERMINED USING MP/0/A/7650/01 ENCLOSURE 13.2. EXAMINE ALL FLANGE BOLTING MATERIAL. Stud length = 10.250"						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-2									
M2.B7.50.0006	2NV275-FL1 Class 1 NV	MCFI-2NV275 MC-ISIN4-2554-01.00	NDE-62	VT-1	SS		1.000 / NA		B07.050.102
			Flange Bolting						
			FLANGE BOLTING (4 STUDS). BOLTING SIZE DETERMINED USING MP/0/A/7650/01 ENCLOSURE 13.2. EXAMINE ALL FLANGE BOLTING MATERIAL. Rescheduled to Outage 6 per 2MNS-037. Stud length = 10.250"						
M2.B7.50.0007	2NV282-FL1 Class 1 NV	MCFI-2NV282 MC-ISIN4-2554-01.01	NDE-62	VT-1	SS		1.000 / NA		B07.050.103
			Flange Bolting						
			FLANGE BOLTING (4 STUDS). BOLTING SIZE DETERMINED USING MP/0/A/7650/01 ENCLOSURE 13.2. EXAMINE ALL FLANGE BOLTING MATERIAL. Stud length = 10.250"						
M2.B7.70.0020	2NC-1 Class 1 NC	MCFI-2NC53 MC-ISIN4-2553-02.00 MCM 1205.00-0009 001, 003	NDE-62	VT-1	SS		1.875 / NA		B07.070.001A
			Valve Bolting						
			GROUP 1. 6" CROSBY RELIEF VALVE. INSPECT ONE OF THE FOLLOWING VALVES IN GROUP 1: 2NC-1, 2NC-2, AND 2NC-3.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-K									
M2.B10.10.0004	2PZR-W13C Class 1 NC	MCM 2201.01-16 MC-ISIN4-2553-02.00 MCM 1201.01-0140	NDE-35	PT	CS		4.000 / NA		B10.010.004
<p>SEISMIC LUG to SHELL</p> <p>WELDED ATTACHMENT. PRESSURIZER SEISMIC LUG TO SHELL. W-X QUADRANT. PT MAY BE USED IN PLACE OF MT IF NECESSARY.</p> <p>For the Fourth Interval review this welded attachment for implementation of Code Case N-700.</p>									
Category B-M-2									
M2.B12.50.0001	2NC-1 Class 1 NC	MCFI-2NC53 MC-ISIN4-2553-02.00 MCM 1205.09-0001-001	NDE-64	VT-3	SS		NA / NA		B12.050.001A
<p>Valve Body Internal</p> <p>GROUP 1. 6" CROSBY RELIEF VALVE. INSPECT ONE OF THE FOLLOWING VALVES IN GROUP 1: 2NC-1, 2NC-2, AND 2NC-3 ONLY IF DISASSEMBLED FOR MAINTENANCE, REPAIR, OR VOLUMETRIC EXAMINATION.</p>									
Category B-N-1									
M2.B13.10.0001	2RPV-INTERIOR Class 1 NC	MCM 2201.01-0001 MC-ISIN4-2553-01.00	NDE-63	VT-3	UNK		NA / NA		B13.010.001
<p>Vessel Interior</p> <p>REACTOR VESSEL INTERIOR. AREAS TO BE EXAMINED SHALL INCLUDE THE SPACES ABOVE AND BELOW THE REACTOR CORE THAT ARE MADE ACCESSIBLE FOR EXAMINATION BY REMOVAL OF COMPONENTS DURING NORMAL REFUELING OUTAGES. INSPECT EACH INSPECTION PERIOD.</p> <p>THIS EXAMINATION WAS PERFORMED FOR THE SECOND INTERVAL PER RFR 03-004. EXAMINATION ALSO PERFORMED FOR 2EOC-16/OUTAGE 1, WILL REPORT BUT WILL NOT COUNT FOR PERCENTAGE PURPOSE. EXAMINATION WILL BE PERFORMED 2EOC-17/OUTAGE 2 AND WILL REPORT FOR PERCENTAGES AT THAT TIME.</p> <p>Vendor needed to perform VT exam.</p>									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category C-4									
M2.C1.10.0008	2RHR-2B-3-4 Class 2 ND	MCM 1201.06-22 MC-ISIN4-2561-01.00	NDE-68	VT-2	SS		0.750 / NA		C01.010.2559, C01.010.2560
Circumferential			NOZZLE BELT to Flange RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2B. Residual Heat Removal Heat Exchanger 2B Nozzle Belt to Flange Weld. Code Case N-706 has been incorporated for use during the Third Interval which allow an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information reference PIP G-08-480 and File Nos. MC-1212.04, MC-1223.04, and MC-1223.11 (Record Retention Code # 000252). If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchanger and others of the same design or configuration if leakage has been detected. This exam will be performed under the Pressure Test Program, reference McGuire Fourth Interval, Inservice Inspection Plan - Pressure Test Plan. Reference drawing MC-ISIL4-2561-01.00 A VT-2 visual exam will be performed for this weld. Please Note: Thickness and material are to be verified prior schedule and exam						
M2.C1.10.0009	2RHRHX-2A-3-4 Class 2 ND	MCM 1201.06-22 MC-ISIN4-2561-01.00	NDE-68	VT-2	SS		0.750 / NA		C01.010.050
Circumferential			NOZZLE BELT to Flange RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2A. Residual Heat Removal Heat Exchanger 2A Nozzle Belt to Flange Weld. Code Case N-706 has been incorporated for use during the Third Interval which allow an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information reference PIP G-08-480 and File Nos. MC-1212.04, MC-1223.04, and MC-1223.11 (Record Retention Code # 000252). If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchanger and others of the same design or configuration if leakage has been detected. This exam will be performed under the Pressure Test Program, reference McGuire Fourth Interval, Inservice Inspection Plan - Pressure Test Plan. Reference drawing MC-ISIL4-2561-01.00 A VT-2 visual exam will be performed for this weld. Please Note: Thickness and material are to be verified prior schedule and exam						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category C-A									
M2.C1.20.0014	2RHR-2B-2-3 Class 2 ND	MCM 1201.06-22 MC-ISIN4-2561-01.00	NDE-68	VT-2	SS		0.750 / NA		C01.020.2561, C01.020.2562
Circumferential	<p>NOZZLE BELT to HEAD</p> <p>RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2B.</p> <p>Residual Heat Removal Heat Exchanger 2B Nozzle Belt to Head Weld. Code Case N-706 has been incorporated for use during the Third Interval which allow an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information reference PIP G-08-480 and File Nos. MC-1212.04, MC-1223.04, and MC-1223.11 (Record Retention Code # 000252).</p> <p>If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchanger and others of the same design or configuration if leakage has been detected.</p> <p>This exam will be performed under the Pressure Test Program, reference McGuire Fourth Interval, Inservice Inspection Plan - Pressure Test Plan. Reference drawing MC-ISIL4-2561-01.00 A VT-2 visual exam will be performed for this weld.</p> <p>Please Note: Thickness and material are to be verified prior schedule and exam</p>								
M2.C1.20.0018	2RHRHX-2A-2-3 Class 2 ND	MCM 1201.06-22 MC-ISIN4-2561-01.00	NDE-68	VT-2	SS		0.750 / NA		C01.020.030
Circumferential	<p>NOZZLE BELT to HEAD</p> <p>RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2A.</p> <p>Residual Heat Removal Heat Exchanger 2A Nozzle Belt to Head Weld. Code Case N-706 has been incorporated for use during the Third Interval which allow an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information reference PIP G-08-480 and File Nos. MC-1212.04, MC-1223.04, and MC-1223.11 (Record Retention Code # 000252).</p> <p>If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchanger and others of the same design or configuration if leakage has been detected.</p> <p>This exam will be performed under the Pressure Test Program, reference McGuire Fourth Interval, Inservice Inspection Plan - Pressure Test Plan. Reference drawing MC-ISIL4-2561-01.00 A VT-2 visual exam will be performed for this weld.</p> <p>Please Note: Thickness and material are to be verified prior schedule and exam</p>								

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category C-A									
M2.C1.30.0005	2SGA-W65 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0126	NDE-820	UT	CS		3.687 / NA	5135230	C01.030.001
	Circumferential		TUBE SHEET to SHELL STEAM GENERATOR 2A.						
M2.C1.30.0005	2SGA-W65 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0126	NDE-640	UT	CS		3.687 / NA	5135230	C01.030.001
	Circumferential		TUBE SHEET to SHELL STEAM GENERATOR 2A.						
Category C-B									
M2.C2.21.0001	2SGA-W258 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0159	NDE-25	MT	CS		4.125 / NA		C02.021.001, C02.021.001A
	Circumferential		Nozzle to Steam Drum STEAM GENERATOR 2A FEEDWATER NOZZLE. Please Note: Thickness and material are to be verified prior schedule and exam						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category C-B									
M2.C2.21.0001	2SGA-W258 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0159	NDE-820	UT	CS		4.125 / NA	5139385	C02.021.001, C02.021.001A
	Circumferential		Nozzle to Steam Drum STEAM GENERATOR 2A FEEDWATER NOZZLE. Please Note: Thickness and material are to be verified prior schedule and exam						
M2.C2.21.0001	2SGA-W258 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0159	NDE-640	UT	CS		4.125 / NA	5139385	C02.021.001, C02.021.001A
	Circumferential		Nozzle to Steam Drum STEAM GENERATOR 2A FEEDWATER NOZZLE. Please Note: Thickness and material are to be verified prior schedule and exam						
M2.C2.21.0005	2SGA-W259 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0160	NDE-25	MT	CS		4.125 / NA		C02.021.005, C02.021.005A, C02.021.2577
	Circumferential		Nozzle to Steam Drum STEAM GENERATOR 2A AUXILLIARY FEEDWATER NOZZLE. Please Note: Thickness and material are to be verified prior schedule and exam. For 2EOC23 this exam scheduled and STEAM GENERATOR 2C AUXILLIARY FEEDWATER NOZZLE unscheduled. See Addendum 4MNS2-003.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category C-B									
M2.C2.21.0005	2SGA-W259 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0160	NDE-820	UT	CS		4.125 / NA	5139385	C02.021.005, C02.021.005A, C02.021.2577
Circumferential			Nozzle to Steam Drum						
			STEAM GENERATOR 2A AUXILLIARY FEEDWATER NOZZLE. Please Note: Thickness and material are to be verified prior schedule and exam. For 2EOC23 this exam scheduled and STEAM GENERATOR 2C AUXILLIARY FEEDWATER NOZZLE unscheduled. See Addendum 4MNS2-003.						
M2.C2.21.0005	2SGA-W259 Class 2 SM	MCM 2201.01-0207 MC-ISIN4-2591-01.01 MCM 2201.01-0160	NDE-640	UT	CS		4.125 / NA	5139385	C02.021.005, C02.021.005A, C02.021.2577
Circumferential			Nozzle to Steam Drum						
			STEAM GENERATOR 2A AUXILLIARY FEEDWATER NOZZLE. Please Note: Thickness and material are to be verified prior schedule and exam. For 2EOC23 this exam scheduled and STEAM GENERATOR 2C AUXILLIARY FEEDWATER NOZZLE unscheduled. See Addendum 4MNS2-003.						
Category C-C									
M2.C3.20.0022	2MCA-ND-5311 Class 2 ND	MCSR-2FW-350/sht. 4 MC-ISIN4-2561-01.00 2MCA-ND-5311	NDE-35	PT	SS	20	0.375 / 12.000		C03.020.024
Mech Snubber			Attachment to Pipe Weld						
			WELDED ATTACHMENT. INSPECT WITH F01.020.103C. If material must be known this must be determined in the field						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.10.0001	2MCR-NC-4500 Class 1 NC	MCSR-2NC-201/sht. 1	NDE-66	VT-3	NA		NA / 14.000		F01.010.001C
Spring Hgr									
M2.F1.10.0006	2MCR-NC-4253 Class 1 NC	MCSR-2NC-210/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.010.006C
Mech Snubber									
M2.F1.10.0007	2MCR-NC-4254 Class 1 NC	MCSR-2NC-210/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.010.007C
Mech Snubber									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.10.0014	2MCR-NC-4120 Class 1 NC	MCSR-2NI-203/sht. 1	NDE-66	VT-3	NA		NA / 10.000		F01.010.014A, F01.010.014B
Rigid Support									
M2.F1.10.0017	2MCR-NC-4083 Class 1 NC	MCSR-2NI-215/sht. 1	NDE-66	VT-3	NA		NA / 1.500		F01.010.016C, F01.010.017C
Mech Snubber									
M2.F1.10.0018	2MCR-NC-4163 Class 1 NC	MCSR-2NV-202/sht. 2	NDE-66	VT-3	NA		NA / 3.000		F01.010.017C, F01.010.018C
Mech Snubber									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.10.0019	2MCR-NC-4093 Class 1 NC	MCSR-2NV-204/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.010.018A, F01.010.019A
Rigid Support									
M2.F1.10.0023	2MCR-NI-4949 Class 1 NI	MCSR-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 8.000		F01.010.076A
Rigid Support									
M2.F1.10.0024	2MCR-NI-4943 Class 1 NI	MCSR-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 8.000		F01.010.077C
Mech Snubber									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.10.0025	2MCR-NI-4654 Class 1 NI	MCSR-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 8.000		F01.010.078A, F01.010.078B
Rigid Restraint									
M2.F1.10.0101	2MCR-NC-4791 Class 1 NC	MCSR-2NC-202/sht. 1	NDE-66	VT-3	SS		0.500 / 3.000		F01.010.020C, F01.010.6086
Mech Snubber									
INSPECT WITH B10.020.001									
M2.F1.10.0141	2MCR-NI-4661 Class 1 NI	MCSR-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 8.000		F01.010.093C, F01.010.6163
Hyd Snubber									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.10.0160	2MCR-NV-4007 Class 1 NV	MCSR-2NV-207/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.010.115C, F01.010.6200
Mech Snubber									
M2.F1.20.0003	2MCA-CA-H15 Class 2 CA	MCSR-2CAM/sht. 2	NDE-66	VT-3	NA		NA / 6.000		F01.020.003B
Rigid Restraint									
M2.F1.20.0006	2MCR-CA-H94 Class 2 CA	MCSR-2CAO/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.006C
Mech Snubber									

This item was examined EOC-17/Outage 2 as an additional sample for 2MCR-CA-H26. (2MNS-021)

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0032	2MCA-ND-5204 Class 2 ND	MCSR-2FW-350/sht. 3	NDE-66	VT-3	NA		NA / 12.000		F01.020.100C, F01.020.125C
			LIMIT STOP						
M2.F1.20.0033	2MCA-ND-5211 Class 2 ND	MCSR-2FW-350/sht. 3	NDE-66	VT-3	NA		NA / 18.000		F01.020.101B, F01.020.101C
	Rigid Restraint								
M2.F1.20.0034	2MCA-ND-5307 Class 2 ND	MCSR-2FW-350/sht. 4	NDE-66	VT-3	NA		NA / 18.000		F01.020.102A
	Rigid Support								

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0035	2MCA-ND-5311 Class 2 ND	MCSR-2FW-350/sht. 4	NDE-66	VT-3	NA		0.375 / 12.000		F01.020.103C
			INSPECT WITH C03.020.024. (LIMIT STOP)						
M2.F1.20.0065	2MCR-NI-4821 Class 2 NI	MCSR-2NI-208/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.158B
	Rigid Restraint								
M2.F1.20.0066	2MCR-NI-4825 Class 2 NI	MCSR-2NI-208/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.020.159B
	Rigid Restraint								

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0067	2MCR-NI-4787								
	Class 2 NI	MCSR-2NI-209/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.160A
	Rigid Support								
M2.F1.20.0068	2MCR-NI-4772								
	Class 2 NI	MCSR-2NI-209/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.161A
	Rigid Support								
M2.F1.20.0075	2MCR-NI-4899								
	Class 2 NI	MCSR-2NI-213/sht. 1	NDE-66	VT-3	NA		NA / 3.000		F01.020.168B
	Rigid Restraint								

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0076	2MCR-NI-4896								
	Class 2 NI	MCSR-2NI-213/sht. 1	NDE-66	VT-3	NA		NA / 3.000		F01.020.169C
	Mech Snubber								
M2.F1.20.0077	2MCR-NI-4892								
	Class 2 NI	MCSR-2NI-213/sht. 1	NDE-66	VT-3	NA		NA / 3.000		F01.020.170A
	Rigid Support								
M2.F1.20.0078	2MCR-NI-4134								
	Class 2 NI	MCSR-2NI-215/sht. 1	NDE-66	VT-3	NA		NA / 3.000		F01.020.171C
	Mech Snubber								

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0082	2MCA-NI-5036								
	Class 2 NI	MCSRDRD-2NI-350/sht. 3	NDE-66	VT-3	NA		NA / 4.000		F01.020.175B
Rigid Restraint									
M2.F1.20.0083	2MCA-NI-5718								
	Class 2 NI	MCSRDRD-2NI-350/sht. 3	NDE-66	VT-3	NA		NA / 4.000		F01.020.176B
Rigid Restraint									
M2.F1.20.0084	2MCA-NI-5806								
	Class 2 NI	MCSRDRD-2NV-353/sht. 3	NDE-66	VT-3	NA		NA / 4.000		F01.020.178B
Rigid Restraint									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0169	2MCA-SM-H24 Class 2 SM	MCSR-2SMA/sht. 2	NDE-66	VT-3	NA		NA / 34.000		F01.020.428C, F01.020.432C
Mech Snubber									
M2.F1.20.0173	2MCA-SM-H69 Class 2 SM	MCSR-2SMA/sht. 4	NDE-66	VT-3	NA		NA / 34.000		F01.020.429C, F01.020.439C
Mech Snubber									
M2.F1.20.0176	2MCR-VQ-4544 Class 2 VQ	MCSR-2VQ-201/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.500B, F01.020.505B
Rigid Restraint									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0179	2MCR-VQ-4507 Class 2 VQ	MCSR-2VQ-202/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.503C
	Mech Snubber/Spring Hgr								
M2.F1.20.0181	2MCR-WL-4061 Class 2 WL	MCSR-2WL-207/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.525B
	Rigid Restraint								
M2.F1.20.0185	2MCA-CA-H14 Class 2 CA	MCSR-2CAM/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.013A, F01.020.6269
	Rigid Support								

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0187	2MCA-CA-H142 Class 2 CA	MCSR-2CAP/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.019C, F01.020.6271
Hyd Snb/Mec Snb									

This item was examined EOC-17/Outage 2 as an additional sample for 2MCR-CA-H26. (2MNS-021)

M2.F1.20.0302	2MCA-ND-5506 Class 2 ND	MCSR-2ND-350/sht. 5	NDE-66	VT-3	UNK		0.125 / 8.000		F01.020.132A, F01.020.6509
Rigid Support									

Thickness is reference dimension only

M2.F1.20.0329	2MCA-ND-5802 Class 2 ND	MCSR-2ND-350/sht. 6	NDE-66	VT-3	NA		NA / 8.000		F01.020.133A, F01.020.6562
Rigid Support									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.0403	2MCA-NI-5045 Class 2 NI	MCSR-2ND-362/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.184A, F01.020.6709
Rigid Support									
M2.F1.20.0483	2MCA-NS-5207 Class 2 NS	MCSR-2NS-352/sht. 1	NDE-66	VT-3	UNK		0.125 / 10.000		F01.020.228A, F01.020.6843
Rigid Support									
Thickness is reference dimension only									
M2.F1.20.0763	2MCA-SV-H9 Class 2 SV	MCSR-2SVA/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.477B, F01.020.7322
Rigid Restraint									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

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.F1.20.0836	2MCR-NI-4060 Class 2 NI	MCSR-2NI-211/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.020.191A, F01.020.7468
Rigid Support									
M2.F1.20.0886	2MCR-NI-4765 Class 2 NI	MCSR-2NI-209/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.190A, F01.020.7566
Rigid Support									
M2.F1.20.0920	2MCR-NI-4950 Class 2 NI	MCSR-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 12.000		F01.020.183A, F01.020.7632
Rigid Support									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.20.1137	2MCA-CA-H131	Class 2 CA MCSR-2CAP/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.015B
Rigid Restraint									
M2.F1.20.1138	2MCA-CA-H21	Class 2 CA MCSR-2CAM/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.016C
Hyd Snubber									
M2.F1.30.0001	2MCA-CA-5160	Class 3 CA MCSR-2CA-351/sht. 1	NDE-66	VT-3	NA		NA / 8.000		F01.030.001B
Rigid Restraint									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.30.0002	2MCA-CA-5210 Class 3 CA	MCSR-2CA-351/sht. 2	NDE-66	VT-3	NA		NA / 8.000		F01.030.002A
Rigid Support									
M2.F1.30.0110	2MCA-CA-5208 Class 3 CA	MCSR-2CA-351/sht. 1	NDE-66	VT-3	NA		NA / 8.000		F01.030.003A, F01.030.8115
Rigid Support									
M2.F1.30.0166	2MCA-CA-5554 Class 3 CA	MCSR-2CA-356/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.030.004A, F01.030.8173
Rigid Support									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.30.0650	2MCA-RV-H503 Class 3 RV	MCSR-2RN-364/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.030.191B
	Rigid Restraint								
M2.F1.40.0002	2PZR-LUGS Class 1 NC	MCM 2201.01-15 MC-ISIN4-2553-02.00 MCM 2201.01-16	NDE-66	VT-3	UNK		NA / NA		F01.040.002, F01.040.002B
	Rigid Restraint								
									PRESSURIZER SUPPORT LUGS. REFERENCE DRAWING MC-1070-22.
M2.F1.40.0075	2NSP-SUPPORT-2A Class 2 NS	MCM 1201.06-0020 MC-ISIN4-2563-01.00 MC 1690-014.01	NDE-66	VT-3	NA		NA / NA		F01.040.008B
	Rigid Restraint								
									Rigid Restraint CONTAINMENT SPRAY PUMP 2A SUPPORT. EXAMINE HORIZONTAL RESTRAINT AND VERTICAL SUPPORT. EOC-18 / OUTAGE 3 REINSPECTION OF SUPPORT TO INCLUDE LATERAL RESTRAINT. REFERENCE PIP M-07-323.

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.40.0080	2NSHX-SUPPORT-2B Class 2 NS	MCM 1201.06-0090 MC-ISIN4-2563-01.00 MC 1220-32	NDE-66	VT-3	CS		NA / NA		F01.040.039B
	Rigid Restraint		<p>2B CONTAINMENT SPRAY HEAT EXCHANGER SUPPORT. EXAMINE LOWER SUPPORT AND UPPER LATERAL RESTRAINTS. EXAMINE WITH M2.D1.10.0023. SINCE "HX A" & "HX B" ARE OF DIFFERENT DESIGN, BOTH WILL BE EXAMINED. EOC--18 / OUTAGE 3 REINSPECTION OF SUPPORT TO INCLUDE UPPER LATERAL RESTRAINTS. REFERENCE PIP M-07-323.</p> <p>The Containment Spray Heat Exchanger (2B) Lower Support and Upper Lateral Restraints were categorized as Class 2 and were examined (VT-3) during EOC-18.. IE review determined the Containment Spray Heat Exchanger Lower Supports and Upper Lateral Restraints should be classified as Class 3 based on lugs being attached to the Class 3 side of vessel. A visual examination (VT-3) is the required exam method for Examination Category F-A, Item No. F1.40. for both Class 2 and Class 3 supports. Reference Delta 17 on C-C Tab for additional information on the Lower Support and Upper Lateral Restraints. The Upper Lateral Restraint and lugs are located on the Class 2 side of the HX. and the Lower Support is located on the Class 3 side of the HX. Since these supports have been examined in the third interval DE will not re-categorize the Containment Spray Heat Exchanger Lower Support from Class 2 to Class 3 and the Upper Lateral Restraints will remain Class 2 until the fourth interval plan development. Reference PIP G-09-0921 ER#19</p>						
M2.F1.40.0092	2NSHX-SUPPORT-2A Class 2 NS	MCM 1201.06-0025 MC-ISIN4-2563-01.00 MCM 1201.06-093	NDE-66	VT-3	CS		NA / NA		F01.040.009B
	Rigid Restraint		<p>2A CONTAINMENT SPRAY HEAT EXCHANGER SUPPORT. EXAMINE LOWER SUPPORT AND UPPER LATERAL RESTRAINTS. EXAMINE WITH M2.D1.10.0024. SINCE "HX A" & "HX B" ARE OF DIFFERENT DESIGN, BOTH WILL BE EXAMINED. EOC--18 / OUTAGE 3 REINSPECTION OF SUPPORT TO INCLUDE UPPER LATERAL RESTRAINTS. REFERENCE PIP M-07-323.</p> <p>The Containment Spray Heat Exchanger (2A) Lower Support and Upper Lateral Restraints were categorized as Class 2 and were examined (VT-3) during EOC-18.. IE review determined the Containment Spray Heat Exchanger Lower Supports and Upper Lateral Restraints should be classified as Class 3 based on lugs being attached to the Class 3 side of vessel. A visual examination (VT-3) is the required exam method for Examination Category F-A, Item No. F1.40. for both Class 2 and Class 3 supports. Since these supports have been examined in the third interval DE will not re-categorize the Containment Spray Heat Exchanger Lower Support and Upper Lateral Restraints from Class 2 to Class 3 until the fourth interval plan development. Reference PIP G-09-0921 ER#19</p>						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A									
M2.R1.11.3049	2NC2FW45-5 Class 1 NC	MCFI-2NC45 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	160	0.281 / 1.500	PDI-UT-2-M1 PDI-UT-2A-M 50202	NA
			Pipe to Nozzle Reference Code Case N-716, Examination Category R-A, Item No. R1.11.						
M2.R1.17.0161	RN2FW180-9 Class 3 RN	MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN180	NDE-946	UT	SS	40	0.322/8.000	Step_Wedge	NA
			PIPE TO ELB Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.						
M2.R1.17.0166	RN2FW180-12 Class 3 RN	MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN180	NDE-946	UT	SS	40	0.322/8.000	Step_Wedge	NA
			PIPE TO ELB Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

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.R1.17.0174	RN2FW180-20 Class 3 RN	MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN180	NDE-946	UT	SS	40	0.322/8.000	Step_Wedge	NA
			PIPE TO ELB Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.						
M2.R1.17.0189	RN2FW181-9 Class 3 RN	MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN181	NDE-946	UT	SS	40	0.322/8.000	Step_Wedge	NA
			PIPE TO ELB Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.						
M2.R1.17.0195	RN2FW181-15 Class 3 RN	MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN181	NDE-946	UT	SS	40	0.322/8.000	Step_Wedge	NA
			PIPE TO ELB Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A									
M2.R1.17.0205	RN2FW181-25 Class 3 RN	MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN181	NDE-946	UT	SS	40	0.322/8.000	Step_Wedge	NA
			PIPE TO ELB Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.						
M2.R1.20.0038	2NC2F3-17B Class 1 NC	MC-2676-4	NDE-68	VT-2	SS	160	0.344 / 2.000		--
			Reference Code Case N-716, Examination Category R-A, Item No. R1.20, Notes 9 and 10.						
M2.R1.20.0046	2NC2F4-18B Class 1 NC	MC-2676-4	NDE-68	VT-2	SS	160	0.344 / 2.000		--
			Reference Code Case N-716, Examination Category R-A, Item No. R1.20, Notes 9 and 10.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A									
M2.R1.20.0089	2NC2FW22-10 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.000 / 10.000	PDI-UT-2-M1 PDI-UT-2A-M PDI UT 2-O	---
			Elbow to Pipe Reference Code Case N-716, Examination Category R-A, Item No. R1.20.						
M2.R1.20.0090	2NC2FW22-11 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.000 / 10.000	PDI-UT-2-M1 PDI-UT-2A-M PDI UT 2-O	---
			Pipe to Elbow Reference Code Case N-716, Examination Category R-A, Item No. R1.20.						
M2.R1.20.0093	2NC2FW22-14 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.250 / 14.000	PDI-UT-2-M1 PDI-UT-2A-M	---
			Pipe to Elbow Reference Code Case N-716, Examination Category R-A, Item No. R1.20.						

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2	
Category R-A										
M2.R1.20.0094	2NC2FW22-16 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.250 / 14.000	PDI-UT-2-M1 PDI-UT-2A-M	--	
			Elbow to Tee Reference Code Case N-716, Examination Category R-A, Item No. R1.20.							
M2.R1.20.0096	2NC2FW22-18 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.250 / 14.000	PDI-UT-2-M1 PDI-UT-2A-M	--	
			Reducer to Tee Reference Code Case N-716, Examination Category R-A, Item No. R1.20.							
M2.R1.20.0098	2NC2FW22-2 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1 PDI-UT-2A-M 50211	--	
			Pipe to Elbow Reference Code Case N-716, Examination Category R-A, Item No. R1.20.							

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A									
M2.R1.20.0099	2NC2FW22-20 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1 PDI-UT-2A-M 50211	--
Elbow to Pipe Reference Code Case N-716, Examination Category R-A, Item No. R1.20.									
M2.R1.20.0100	2NC2FW22-21 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1 PDI-UT-2A-M 50211	--
Pipe to Elbow Reference Code Case N-716, Examination Category R-A, Item No. R1.20.									
M2.R1.20.0102	2NC2FW22-3 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1 PDI-UT-2A-M 50211	--
Elbow to Pipe Reference Code Case N-716, Examination Category R-A, Item No. R1.20.									

This report includes all changes through addendum 4MNS2-004

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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Category R-A

M2.R1.20.0105	2NC2FW22-7 Class 1 NC	MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.000 / 10.000	PDI-UT-2-M1 PDI-UT-2A-M 50209	--
<p>Pipe to Elbow Reference Code Case N-716, Examination Category R-A, Item No. R1.20.</p>									

M2.R1.20.0134	2NC2FW45-1 Class 1 NC	MCFI-2NC45 MC-ISIN4-2553-01.00	NDE-68	VT-2	SS	160	0.344 / 2.000		--
<p>Nozzle to Pipe Reference Code Case N-716, Examination Category R-A, Item No. R1.20, Notes 9 and 10.</p>									

End of Report

STATISTICS ONLY	Class 1	117	Class 2	50	Class 3	11	Total by Class	178	Systems	178	Total Count	178
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4.0 Results of Inspections Performed

The results of each examination shown in the final Inservice Inspection Plan (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.

4.1 Reportable Indications

2EOC 23 (Outage 1) had no code reportable indications during 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 were no recordable conditions that required corrective action during 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's Corporate Office in Charlotte, North Carolina.

4.4 Limited Examinations

Limitations (i.e., 90% or less of the required volumetric examination coverage obtained) identified for code examinations associated with this report period are shown below. This information will be on file at the Duke's Corporate Office in Charlotte, North Carolina.

Summary Number

Description of Limitation

M2.R1.11.3049

Reference NCR No. 01954197

DUKE ENERGY CORPORATION
Inservice Inspection Database Management System
Inspection Results

Scheduleworks

McGuire 2, 4th Interval, Outage (EOC-23)

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.B10.10.0004	2PZR-W13C	NC	09/22/15	CLR	N	N	N	PT-15-064
M2.B12.50.0001	2NC-1	NC	08/25/15	CLR	N	N	N	VT-15-1028
M2.B13.10.0001	2RPV-INTERIOR	NC	09/20/15	CLR	N	N	N	VT-15-1029
M2.B15.80.0001	2-RPV-BMI-NOZZLES	NC	09/14/15	CLR	N	N	N	VT-15-1055
M2.B3.140.0001	2SGA-INLET	NC	09/24/15	CLR	N	N	N	UT-15-512 (Page 1)
		NC	09/24/15	CLR	N	N	N	UT-15-512 (Page 2)
		NC	09/24/15	CLR	N	N	N	UT-15-512 (Page 3)
M2.B3.140.0002	2SGA-OUTLET	NC	09/24/15	CLR	N	N	N	UT-15-513 (Page 1)
		NC	09/24/15	CLR	N	N	N	UT-15-513 (Page 2)
		NC	09/24/15	CLR	N	N	N	UT-15-513 (Page 3)
M2.B4.10.0001	2RPV-Head	NC	09/23/15	CLR	N	N	N	VT-15-1056
M2.B6.10.0036	2RPV-664-32-01	NC	09/21/15	CLR	N	N	N	VT-15-1071

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.B6.10.0037	2RPV-664-32-02	NC	09/21/15	CLR	N	N	N	VT-15-1070
M2.B6.10.0038	2RPV-664-32-03	NC	09/21/15	CLR	N	N	N	VT-15-1073
M2.B6.10.0039	2RPV-664-32-04	NC	09/21/15	CLR	N	N	N	VT-15-1074
M2.B6.10.0040	2RPV-664-32-05	NC	09/21/15	CLR	N	N	N	VT-15-1075
M2.B6.10.0041	2RPV-664-32-06	NC	09/21/15	CLR	N	N	N	VT-15-1076
M2.B6.10.0042	2RPV-664-32-07	NC	09/22/15	CLR	N	N	N	VT-15-1077
M2.B6.10.0043	2RPV-664-32-08	NC	09/22/15	CLR	N	N	N	VT-15-1078
M2.B6.10.0044	2RPV-664-32-09	NC	09/21/15	CLR	N	N	N	VT-15-1072
M2.B6.20.0001	2RPV-664-31-44	NC	09/19/15	CLR	N	N	N	UT-15-506
M2.B6.20.0002	2RPV-664-31-45	NC	09/19/15	CLR	N	N	N	UT-15-507
M2.B6.20.0003	2RPV-664-31-01	NC	09/19/15	CLR	N	N	N	UT-15-453
M2.B6.20.0004	2RPV-664-31-04	NC	09/19/15	CLR	N	N	N	UT-15-456
M2.B6.20.0005	2RPV-664-31-05	NC	09/19/15	CLR	N	N	N	UT-15-457
M2.B6.20.0006	2RPV-664-31-06	NC	09/19/15	CLR	N	N	N	UT-15-458

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.B6.20.0007	2RPV-664-31-07	NC	09/19/15	CLR	N	N	N	UT-15-459
M2.B6.20.0008	2RPV-664-31-08	NC	09/19/15	CLR	N	N	N	UT-15-460
M2.B6.20.0009	2RPV-664-31-09	NC	09/19/15	CLR	N	N	N	UT-15-461
M2.B6.20.0010	2RPV-664-31-10	NC	09/19/15	CLR	N	N	N	UT-15-462
M2.B6.20.0011	2RPV-664-31-11	NC	09/19/15	CLR	N	N	N	UT-15-463
M2.B6.20.0012	2RPV-664-31-46	NC	09/19/15	CLR	N	N	N	UT-15-508
M2.B6.20.0013	2RPV-664-31-47	NC	09/19/15	CLR	N	N	N	UT-15-509
M2.B6.20.0014	2RPV-664-31-48	NC	09/19/15	CLR	N	N	N	UT-15-510
M2.B6.20.0015	2RPV-664-31-49	NC	09/19/15	CLR	N	N	N	UT-15-477
M2.B6.20.0016	2RPV-664-31-12	NC	09/19/15	CLR	N	N	N	UT-15-464
M2.B6.20.0017	2RPV-664-31-13	NC	09/19/15	CLR	N	N	N	UT-15-487
M2.B6.20.0018	2RPV-664-31-14	NC	09/19/15	CLR	N	N	N	UT-15-488
M2.B6.20.0019	2RPV-664-31-15	NC	09/19/15	CLR	N	N	N	UT-15-489
M2.B6.20.0020	2RPV-664-31-54	NC	09/19/15	CLR	N	N	N	UT-15-482

Inspection Results for 2EOC23

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M2.B6.20.0021	2RPV-664-31-16	NC	09/19/15	CLR	N	N	N	UT-15-490
M2.B6.20.0022	2RPV-664-31-17	NC	09/19/15	CLR	N	N	N	UT-15-491
M2.B6.20.0023	2RPV-664-31-36	NC	09/19/15	CLR	N	N	N	UT-15-498
M2.B6.20.0024	2RPV-664-31-37	NC	09/19/15	CLR	N	N	N	UT-15-499
M2.B6.20.0025	2RPV-664-31-50	NC	09/19/15	CLR	N	N	N	UT-15-478
M2.B6.20.0026	2RPV-664-31-51	NC	09/19/15	CLR	N	N	N	UT-15-479
M2.B6.20.0027	2RPV-664-31-52	NC	09/19/15	CLR	N	N	N	UT-15-480
M2.B6.20.0028	2RPV-664-31-53	NC	09/19/15	CLR	N	N	N	UT-15-481
M2.B6.20.0029	2RPV-664-31-02	NC	09/19/15	CLR	N	N	N	UT-15-454
M2.B6.20.0030	2RPV-664-31-03	NC	09/19/15	CLR	N	N	N	UT-15-455
M2.B6.20.0031	2RPV-664-31-38	NC	09/19/15	CLR	N	N	N	UT-15-500
M2.B6.20.0032	2RPV-664-31-39	NC	09/19/15	CLR	N	N	N	UT-15-501
M2.B6.20.0033	2RPV-664-31-40	NC	09/19/15	CLR	N	N	N	UT-15-502
M2.B6.20.0034	2RPV-664-31-41	NC	09/19/15	CLR	N	N	N	UT-15-503

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.B6.20.0035	2RPV-664-31-18	NC	09/19/15	CLR	N	N	N	UT-15-492
M2.B6.20.0036	2RPV-664-31-19	NC	09/19/15	CLR	N	N	N	UT-15-465
M2.B6.20.0037	2RPV-664-31-20	NC	09/19/15	CLR	N	N	N	UT-15-466
M2.B6.20.0038	2RPV-664-31-21	NC	09/19/15	CLR	N	N	N	UT-15-467
M2.B6.20.0039	2RPV-664-31-22	NC	09/19/15	CLR	N	N	N	UT-15-468
M2.B6.20.0040	2RPV-664-31-23	NC	09/19/15	CLR	N	N	N	UT-15-469
M2.B6.20.0041	2RPV-664-31-24	NC	09/19/15	CLR	N	N	N	UT-15-470
M2.B6.20.0042	2RPV-664-31-25	NC	09/19/15	CLR	N	N	N	UT-15-471
M2.B6.20.0043	2RPV-664-31-26	NC	09/19/15	CLR	N	N	N	UT-15-472
M2.B6.20.0044	2RPV-664-31-27	NC	09/19/15	CLR	N	N	N	UT-15-473
M2.B6.20.0045	2RPV-664-31-28	NC	09/19/15	CLR	N	N	N	UT-15-474
M2.B6.20.0046	2RPV-664-31-29	NC	09/19/15	CLR	N	N	N	UT-15-475
M2.B6.20.0047	2RPV-664-31-30	NC	09/19/15	CLR	N	N	N	UT-15-476
M2.B6.20.0048	2RPV-664-31-31	NC	09/19/15	CLR	N	N	N	UT-15-493

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.B6.20.0049	2RPV-664-31-32	NC	09/19/15	CLR	N	N	N	UT-15-494
M2.B6.20.0050	2RPV-664-31-33	NC	09/19/15	CLR	N	N	N	UT-15-495
M2.B6.20.0051	2RPV-664-31-34	NC	09/19/15	CLR	N	N	N	UT-15-496
M2.B6.20.0052	2RPV-664-31-35	NC	09/19/15	CLR	N	N	N	UT-15-497
M2.B6.20.0053	2RPV-664-31-42	NC	09/19/15	CLR	N	N	N	UT-15-504
M2.B6.20.0054	2RPV-664-31-43	NC	09/19/15	CLR	N	N	N	UT-15-505
M2.B6.50.0001	2RPV-664-33-01	NC	09/21/15	CLR	N	N	N	VT-15-1079
M2.B6.50.0002	2RPV-664-33-02	NC	09/21/15	CLR	N	N	N	VT-15-1080
M2.B6.50.0007	2RPV-664-33-03	NC	09/21/15	CLR	N	N	N	VT-15-1081
M2.B6.50.0008	2RPV-664-33-04	NC	09/21/15	CLR	N	N	N	VT-15-1082
M2.B6.50.0009	2RPV-664-33-05	NC	09/21/15	CLR	N	N	N	VT-15-1083
M2.B6.50.0010	2RPV-664-33-06	NC	09/21/15	CLR	N	N	N	VT-15-1084
M2.B6.50.0011	2RPV-664-33-07	NC	09/22/15	CLR	N	N	N	VT-15-1087
M2.B6.50.0012	2RPV-664-33-08	NC	09/22/15	CLR	N	N	N	VT-15-1086

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.B6.50.0013	2RPV-664-33-09	NC	09/21/15	CLR	N	N	N	VT-15-1085
M2.B7.10.0001	2-RPV-CONOSEAL-1	NC	09/22/15	CLR	N	N	N	VT-15-1063
M2.B7.10.0002	2-RPV-CONOSEAL-2	NC	09/21/15	CLR	N	N	N	VT-15-1064
M2.B7.10.0003	2-RPV-CONOSEAL-3	NC	09/22/15	CLR	N	N	N	VT-15-1061
M2.B7.10.0004	2-RPV-CONOSEAL-4	NC	09/22/15	CLR	N	N	N	VT-15-1062
M2.B7.10.0005	2-RPV-CONOSEALS-5	NC	09/21/15	CLR	N	N	N	VT-15-1065
M2.B7.20.0001	2PZR-MWB	NC	09/14/15	CLR	N	N	N	VT-15-1058
M2.B7.50.0001	2NC53-FL1	NC	10/01/15	CLR	N	N	N	VT-15-1060
M2.B7.50.0004	2NV255-FL1	NV	09/25/15	CLR	N	N	N	VT-15-1067
M2.B7.50.0005	2NV264-FL1	NV	09/26/15	CLR	N	N	N	VT-15-1069
M2.B7.50.0006	2NV275-FL1	NV	10/01/15	CLR	N	N	N	VT-15-1066
M2.B7.50.0007	2NV282-FL1	NV	09/25/15	CLR	N	N	N	VT-15-1068
M2.B7.70.0020	2NC-1	NC	08/25/15	CLR	N	N	N	VT-15-1027
M2.C1.10.0008	2RHR-2B-3-4	ND	09/12/15	CLR	N	N	N	VT-15-1119

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.C1.10.0009	2RHRHX-2A-3-4	ND	09/12/15	CLR	N	N	N	VT-15-1123
M2.C1.20.0014	2RHR-2B-2-3	ND	09/12/15	CLR	N	N	N	VT-15-1124
M2.C1.20.0018	2RHRHX-2A-2-3	ND	09/12/15	CLR	N	N	N	VT-15-1125
M2.C1.30.0005	2SGA-W65	SM	09/23/15	CLR	Y	N	N	UT-15-524 Reference NCR # 01957254
		SM	09/23/15	CLR	Y	N	N	UT-15-525 (Page 1) Reference NCR # 01957254
		SM	09/23/15	CLR	Y	N	N	UT-15-525 (Page 2) Reference NCR # 01957254
		SM	09/23/15	CLR	Y	N	N	UT-15-525 (Page 3) Reference NCR # 01957254
		SM	09/23/15	CLR	Y	N	N	UT-15-525 (Page 4) Reference NCR # 01957254
M2.C2.21.0001	2SGA-W258	SM	09/24/15	CLR	N	N	N	MT-15-071
		SM	09/24/15	CLR	N	N	N	UT-15-521 (Page 1)
		SM	09/24/15	CLR	N	N	N	UT-15-521 (Page 2)
		SM	09/24/15	CLR	N	N	N	UT-15-522
M2.C2.21.0005	2SGA-W259	SM	09/24/15	CLR	N	N	N	MT-15-072

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.C2.21.0005	2SGA-W259	SM	09/26/15	CLR	N	N	N	UT-15-527
		SM	09/26/15	CLR	N	N	N	UT-15-528 (Page 1)
		SM	09/26/15	CLR	N	N	N	UT-15-528 (Page 2)
M2.C3.20.0022	2MCA-ND-5311	ND	09/21/15	CLR	N	N	N	PT-15-063
M2.F1.10.0001	2MCR-NC-4500	NC	09/14/15	CLR	N	N	N	VT-15-1052
M2.F1.10.0006	2MCR-NC-4253	NC	09/14/15	CLR	N	N	N	VT-15-1048
M2.F1.10.0007	2MCR-NC-4254	NC	09/14/15	REC	N	N	N	VT-15-1108 Rejected condition found acceptable per Engineering Evaluation dated 9/17/15. Reference NCR # 01952935
M2.F1.10.0014	2MCR-NC-4120	NC	09/15/15	CLR	N	N	N	VT-15-1092
M2.F1.10.0017	2MCR-NC-4083	NC	09/14/15	CLR	N	N	N	VT-15-1051
M2.F1.10.0018	2MCR-NC-4163	NC	09/14/15	CLR	N	N	N	VT-15-1050
M2.F1.10.0019	2MCR-NC-4093	NC	09/14/15	REC	N	N	N	VT-15-1107 Rejected condition found acceptable per Engineering Evaluation dated 9/16/15. Reference NCR # 01952945
M2.F1.10.0023	2MCR-NI-4949	NI	09/16/15	CLR	N	N	N	VT-15-1033
M2.F1.10.0024	2MCR-NI-4943	NI	09/16/15	CLR	N	N	N	VT-15-1034

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.F1.10.0025	2MCR-NI-4654	NI	09/16/15	CLR	N	N	N	VT-15-1045
M2.F1.10.0101	2MCR-NC-4791	NC	09/14/15	CLR	N	N	N	VT-15-1093
M2.F1.10.0141	2MCR-NI-4661	NI	09/16/15	CLR	N	N	N	VT-15-1035
M2.F1.10.0160	2MCR-NV-4007	NV	09/14/15	CLR	N	N	N	VT-15-1049
M2.F1.20.0003	2MCA-CA-H15	CA	08/24/15	CLR	N	N	N	VT-15-1091
M2.F1.20.0006	2MCR-CA-H94	CA	09/14/15	CLR	N	N	N	VT-15-1053
M2.F1.20.0032	2MCA-ND-5204	ND	09/01/15	CLR	N	N	N	VT-15-1102
M2.F1.20.0033	2MCA-ND-5211	ND	09/02/15	CLR	N	N	N	VT-15-1104
M2.F1.20.0034	2MCA-ND-5307	ND	09/02/15	REC	N	N	N	VT-15-1110 Rejected condition found acceptable per Engineering Evaluation dated 9/16/15. Reference NCR # 01949930
M2.F1.20.0035	2MCA-ND-5311	ND	09/02/15	CLR	N	N	N	VT-15-1118
M2.F1.20.0065	2MCR-NI-4821	NI	09/16/15	CLR	N	N	N	VT-15-1036
M2.F1.20.0066	2MCR-NI-4825	NI	09/16/15	CLR	N	N	N	VT-15-1038
M2.F1.20.0067	2MCR-NI-4787	NI	09/16/15	CLR	N	N	N	VT-15-1039
M2.F1.20.0068	2MCR-NI-4772	NI	09/16/15	CLR	N	N	N	VT-15-1041

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Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.20.0075	2MCR-NI-4899	NI	09/16/15	CLR	N	N	N	VT-15-1040
M2.F1.20.0076	2MCR-NI-4896	NI	09/16/15	REC	N	N	N	VT-15-1109 Rejected condition found acceptable per Engineering Evaluation dated 9/17/15. Reference NCR # 01953964
M2.F1.20.0077	2MCR-NI-4892	NI	09/16/15	CLR	N	N	N	VT-15-1042
M2.F1.20.0078	2MCR-NI-4134	NI	09/16/15	CLR	N	N	N	VT-15-1043
M2.F1.20.0082	2MCA-NI-5036	NI	09/09/15	CLR	N	N	N	VT-15-1117
M2.F1.20.0083	2MCA-NI-5718	NI	09/01/15	CLR	N	N	N	VT-15-1101
M2.F1.20.0084	2MCA-NI-5806	NI	08/24/15	CLR	N	N	N	VT-15-1031
M2.F1.20.0169	2MCA-SM-H24	SM	09/15/15	REC	N	N	N	VT-15-1113 Rejected condition found acceptable per Engineering Evaluation dated 9/17/15. Reference NCR # 01953342
M2.F1.20.0173	2MCA-SM-H69	SM	09/13/15	REC	N	N	N	VT-15-1111 Rejected condition found acceptable per Engineering Evaluation dated 9/16/15. Reference NCR # 01952568
M2.F1.20.0176	2MCR-VQ-4544	VQ	09/15/15	CLR	N	N	N	VT-15-1046
M2.F1.20.0179	2MCR-VQ-4507	VQ	09/15/15	REC	N	N	N	VT-15-1106 Rejected condition found acceptable per Engineering Evaluation dated 9/16/15. Reference NCR # 01953354

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<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.F1.20.0181	2MCR-WL-4061	WL	09/15/15	CLR	N	N	N	VT-15-1047
M2.F1.20.0185	2MCA-CA-H14	CA	08/24/15	CLR	N	N	N	VT-15-1090
M2.F1.20.0187	2MCA-CA-H142	CA	08/25/15	CLR	N	N	N	VT-15-1103
M2.F1.20.0302	2MCA-ND-5506	ND	09/02/15	CLR	N	N	N	VT-15-1096
M2.F1.20.0329	2MCA-ND-5802	ND	08/24/15	CLR	N	N	N	VT-15-1030
M2.F1.20.0403	2MCA-NI-5045	NI	09/02/15	CLR	N	N	N	VT-15-1099
M2.F1.20.0483	2MCA-NS-5207	NS	09/04/15	CLR	N	N	N	VT-15-1097
M2.F1.20.0763	2MCA-SV-H9	SV	08/24/15	CLR	N	N	N	VT-15-1088
M2.F1.20.0836	2MCR-NI-4060	NI	09/16/15	CLR	N	N	N	VT-15-1037
M2.F1.20.0886	2MCR-NI-4765	NI	09/16/15	CLR	N	N	N	VT-15-1054
M2.F1.20.0920	2MCR-NI-4950	NI	09/16/15	CLR	N	N	N	VT-15-1044
M2.F1.20.1137	2MCA-CA-H131	CA	09/02/15	CLR	N	N	N	VT-15-1098
M2.F1.20.1138	2MCA-CA-H21	CA	08/25/15	CLR	N	N	N	VT-15-1100
M2.F1.30.0001	2MCA-CA-5160	CA	09/04/15	CLR	N	N	N	VT-15-1095

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Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.30.0002	2MCA-CA-5210	CA	08/17/15	REC	N	N	N	VT-15-1116 Rejected condition found acceptable per Engineering Evaluation dated 8/31/15. Reference NCR # 01944240
M2.F1.30.0110	2MCA-CA-5208	CA	08/17/15	REC	N	N	N	VT-15-1115 Rejected condition found acceptable per Engineering Evaluation dated 8/31/15. Reference NCR # 01944262
M2.F1.30.0166	2MCA-CA-5554	CA	05/17/15	REC	N	N	N	VT-15-1114 Rejected condition found acceptable per Engineering Evaluation dated 8/31/15. Reference NCR # 01944266
M2.F1.30.0650	2MCA-RV-H503	RV	08/11/15	CLR	N	N	N	VT-15-1089
M2.F1.40.0002	2PZR-LUGS	NC	09/21/15	CLR	N	N	N	VT-15-1059
M2.F1.40.0075	2NSP-SUPPORT-2A	NS	09/09/15	CLR	N	N	N	VT-15-1105
M2.F1.40.0080	2NSHX-SUPPORT-2B	NS	09/10/15	REC	N	N	N	VT-15-1112 Rejected condition found acceptable per Engineering Evaluation dated 9/16/15. Reference NCR # 01952208
M2.F1.40.0092	2NSHX-SUPPORT-2A	NS	09/04/15	CLR	N	N	N	VT-15-1094
M2.G1.1.0001	2RCP-2A	NC	02/20/15	CLR	N	N	N	Vendor-F.502208 Performed by Vendor (Areva) Contract # F.502208
M2.G13.1.0001	Cold Leg 2D Nozzle 4-1	NC	09/15/15	CLR	Y	N	N	UT-15-447 (Page 1) Reference NCR#01954096

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M2.G13.1.0001	Cold Leg 2D Nozzle 4-1	NC	09/15/15	CLR	Y	N	N	UT-15-447 (Page 2) Reference NCR#01954096
		NC	09/15/15	CLR	Y	N	N	UT-15-447 (Page 3) Reference NCR#01954096
		NC	09/15/15	CLR	Y	N	N	UT-15-447 (Page 4) Reference NCR#01954096
M2.G13.1.0002	Crossover Leg 2A Nozzle 1-6	NC	09/15/15	CLR	Y	N	N	UT-15-441 (Page 1) Reference NCR#01954107
		NC	09/15/15	CLR	Y	N	N	UT-15-441 (Page 2) Reference NCR#01954107
		NC	09/15/15	CLR	Y	N	N	UT-15-441 (Page 3) Reference NCR#01954107
		NC	09/15/15	CLR	Y	N	N	UT-15-441 (Page 4) Reference NCR#01954107
M2.G13.1.0003	Cold Leg 2D Nozzle 4-5	NC	09/15/15	CLR	Y	N	N	UT-15-444 (Page 1) Reference NCR#01954204
		NC	09/15/15	CLR	Y	N	N	UT-15-444 (Page 2) Reference NCR#01954204
		NC	09/15/15	CLR	Y	N	N	UT-15-444 (Page 3) Reference NCR#01954204

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M2.G13.1.0003	Cold Leg 2D Nozzle 4-5	NC	09/15/15	CLR	Y	N	N	UT-15-444 (Page 4) Reference NCR#01954204
		NC	09/15/15	CLR	Y	N	N	UT-15-444 (Page 5) Reference NCR#01954204
M2.G13.1.0004	Cold Leg 2A Nozzle 1-3	NC	09/17/15	CLR	Y	N	N	UT-15-523 (Page 1) Reference NCR#01955373
		NC	09/17/15	CLR	Y	N	N	UT-15-523 (Page 2) Reference NCR#01955373
		NC	09/17/15	CLR	Y	N	N	UT-15-523 (Page 3) Reference NCR#01955373
		NC	09/17/15	CLR	Y	N	N	UT-15-523 (Page 4) Reference NCR#01955373
		NC	09/17/15	CLR	Y	N	N	UT-15-523 (Page 5) Reference NCR#01955373
		NC	09/16/15	CLR	Y	N	N	UT-15-523 (Page 6) Reference NCR#01955373
M2.G3.1.0004	2NC2FW16-1	NC	09/15/15	CLR	N	N	N	PT-15-062
		NC	09/15/15	CLR	N	N	N	UT-15-443 (Page 1)
		NC	09/15/15	CLR	N	N	N	UT-15-443 (Page 2)
M2.G6.2.0001	2PZR-Manway	NC	09/24/15	CLR	N	N	N	VT-15-1057

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.G9.1.0001	2ND17-TEE	ND	09/20/15	CLR	Y	N	N	UT-15-526 (Page 1) Reference NCR 01955356
		ND	09/20/15	CLR	Y	N	N	UT-15-526 (Page 2) Reference NCR 01955356
		ND	09/20/15	CLR	Y	N	N	UT-15-526 (Page 3) Reference NCR 01955356
		ND	09/20/15	CLR	Y	N	N	UT-15-526 (Page 4) Reference NCR 01955356
M2.G9.1.0002	2ND11-TEE	ND	09/18/15	CLR	Y	N	N	UT-15-486 (Page 1) Reference NCR 01955274
		ND	09/18/15	CLR	Y	N	N	UT-15-486 (Page 2) Reference NCR 01955274
		ND	09/17/15	CLR	Y	N	N	UT-15-486 (Page 3) Reference NCR 01955274
M2.G9.1.0003	2ND18-TEE	ND	09/21/15	CLR	Y	N	N	UT-15-520 (Page 1) Reference NCR 01955401
		ND	09/21/15	CLR	Y	N	N	UT-15-520 (Page 2) Reference NCR 01955401
		ND	09/21/15	CLR	Y	N	N	UT-15-520 (Page 3) Reference NCR 01955401

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.G9.1.0003	2ND18-TEE	ND	09/21/15	CLR	Y	N	N	UT-15-520 (Page 4) Reference NCR 01955401
M2.G9.1.0005	2ND3-2ND4B-Valve	ND	09/17/15	CLR	Y	N	N	UT-15-442 (Page 1) Reference NCR 01955064
		ND	09/17/15	CLR	Y	N	N	UT-15-442 (Page 2) Reference NCR 01955064
M2.G9.1.0006	2ND3-2ND19A-Valve	ND	09/20/15	CLR	Y	N	N	UT-15-446 (Page 1) Reference NCR 01955307
		ND	09/20/15	CLR	Y	N	N	UT-15-446 (Page 2) Reference NCR 01955307
M2.R1.11.3049	2NC2FW45-5	NC	09/15/15	CLR	Y	N	Y	UT-15-448 (Page 1) Reference NCR 01954197
		NC	09/15/15	CLR	Y	N	Y	UT-15-448 (Page 2) Reference NCR 01954197
		NC	09/15/15	CLR	Y	N	Y	UT-15-448 (Page 3) Reference NCR 01954197
M2.R1.17.0161	RN2FW180-9	RN	09/22/15	CLR	N	N	N	UT-15-515
M2.R1.17.0166	RN2FW180-12	RN	09/22/15	CLR	N	N	N	UT-15-514
M2.R1.17.0174	RN2FW180-20	RN	09/22/15	CLR	N	N	N	UT-15-516

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.R1.17.0189	RN2FW181-9	RN	09/22/15	CLR	N	N	N	UT-15-517
M2.R1.17.0195	RN2FW181-15	RN	09/22/15	CLR	N	N	N	UT-15-518
M2.R1.17.0205	RN2FW181-25	RN	09/22/15	CLR	N	N	N	UT-15-519
M2.R1.20.0038	2NC2F3-17B	NC	10/08/15	CLR	N	N	N	VT-15-1120
M2.R1.20.0046	2NC2F4-18B	NC	10/08/15	CLR	N	N	N	VT-15-1121
M2.R1.20.0089	2NC2FW22-10	NC	09/22/15	CLR	N	N	N	UT-15-511 (Page 1)
		NC	09/22/15	CLR	N	N	N	UT-15-511 (Page 2)
M2.R1.20.0090	2NC2FW22-11	NC	09/21/15	CLR	N	N	N	UT-15-445 (Page 1)
		NC	09/21/15	CLR	N	N	N	UT-15-445 (Page 2)
M2.R1.20.0093	2NC2FW22-14	NC	09/16/15	CLR	N	N	N	UT-15-449 (Page 1)
		NC	09/16/15	CLR	N	N	N	UT-15-449 (Page 2)
M2.R1.20.0094	2NC2FW22-16	NC	09/16/15	CLR	N	N	N	UT-15-450 (Page 1)
		NC	09/16/15	CLR	N	N	N	UT-15-450 (Page 2)
M2.R1.20.0096	2NC2FW22-18	NC	09/16/15	CLR	N	N	N	UT-15-451 (Page 1)
		NC	09/16/15	CLR	N	N	N	UT-15-451 (Page 2)

Inspection Results for 2EOC23

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
M2.R1.20.0098	2NC2FW22-2	NC	09/18/15	CLR	N	N	N	UT-15-452 (Page 1)
		NC	09/18/15	CLR	N	N	N	UT-15-452 (Page 2)
		NC	09/18/15	CLR	N	N	N	UT-15-452 (Page 3)
M2.R1.20.0099	2NC2FW22-20	NC	09/17/15	CLR	N	N	N	UT-15-483 (Page 1)
		NC	09/17/15	CLR	N	N	N	UT-15-483 (Page 2)
M2.R1.20.0100	2NC2FW22-21	NC	09/17/15	CLR	N	N	N	UT-15-484 (Page 1)
		NC	09/17/15	CLR	N	N	N	UT-15-484 (Page 2)
M2.R1.20.0102	2NC2FW22-3	NC	09/18/15	CLR	N	N	N	UT-15-485 (Page 1)
		NC	09/18/15	CLR	N	N	N	UT-15-485 (Page 2)
		NC	09/18/15	CLR	N	N	N	UT-15-485 (Page 3)
M2.R1.20.0105	2NC2FW22-7	NC	09/16/15	CLR	N	N	N	UT-15-440 (Page 1)
		NC	09/16/15	CLR	N	N	N	UT-15-440 (Page 2)
		NC	09/16/15	CLR	N	N	N	UT-15-440 (Page 3)
M2.R1.20.0134	2NC2FW45-1	NC	10/08/15	CLR	N	N	N	VT-15-1122

5.0 Owner's Report for Repair / Replacement Activities

As required by the applicable code, records of the Class 1 and Class 2 Repair and Replacement work shown on the NIS-2 Forms in this section were completed during the 2EOC23 Reporting Period. Attachment A is a listing of the NIS-2 Forms included in this section.

No items were determined to have work performed outside this report period.

5.1 Class 1 and 2 Preservice Examinations

As required by the applicable code, Preservice Inspection (PSI) Examinations were performed on ISI Class 1 and 2 items during this report period. PSI examination data for items examined during 2EOC23 are filed with the work order and can be viewed in the electronic document management system.

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 10/10/2015
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 1811559-02
 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 CA - Auxiliary Feedwater
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 2007 Edition with the 2008 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)
2CA12	Walworth	C61818	768	N/A	1976	<u>Corrected</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced external plug in valve 2CA12.
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-2CA3

Flow Diagram No(s): MCFD-2592-01.01

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

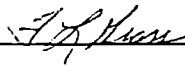
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date October 10, 2015

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 HSB Global Standards

of

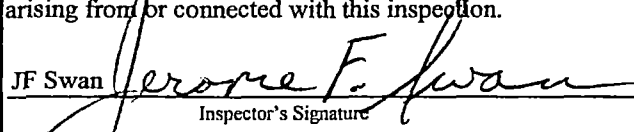
Connecticut

have inspected the components described in this Owner's Report during the period

9-27-15 to 10-14-15, 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


Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date

10-14, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 2/19/2015

Sheet 1 of 2

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

Unit 2

1946628-13

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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5565	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

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

Additional Description Added hanger 2MCA-CA-5565 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. Description (Optional):

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

As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

Component Line Size: 2 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-CA-5565

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

6-2-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
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 1946628-14
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5566	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5566 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. 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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5566

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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 February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

6-2-14 to 2-23-15, 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


Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 1946628-15
 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 Address Authorization No.: N/A
 Expiration Date: N/A

4. Identification of System CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5567	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5567 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. 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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5567

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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 February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

6-2-14 to 2-23-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
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 1946628-16
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5568	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5568 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. 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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5568

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

12-15-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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
526 South Church Street, Charlotte, NC, 28201
Address

Date 2/19/2015

Sheet 1 of 2

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

Unit 2
1946628-17
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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5569	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5569 per EC103963.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5569

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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 February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

6-2-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 2/19/2015

Sheet 1 of 2

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

Unit 2

1946628-18

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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5570	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

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

Additional Description Added hanger 2MCA-CA-5570 per EC103963.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5570

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

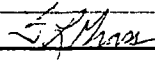
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed: FL Grass, Quality Assurance Technical Specialist



Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

6-2-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/16/2015
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 1946628-21
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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
CA System	Duke Energy	N/A	73	N/A	1982	Installed	Yes

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure * PSI Test Temp. 59.9

°F Description (Optional): tests performed per procedure MP/0/A/7650/076 (* test parameters are within operational design per operations)

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-2CA62 & 66
Flow Diagram No(s): MCFD-2592-01.01
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: EC103963

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 February 16, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 6-24-14 to 2-16-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 2-16, 2015

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 10/9/2015
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 1992005-01
 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 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 2007 Edition with the 2008 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 System	Duke Energy	N/A	82	N/A	1982	Installed	Yes
Pressurizer	Westinghouse	1491	W10285	N/A	1975	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material in manway.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 2250 PSI Test Temp. 558.1

°F Description (Optional): Test performed per procedure MP/0/A/7650/076 on work order task 02177930-01.

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 1

Weld Isometric Drawing No(s):: MCFI-2NC53

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:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

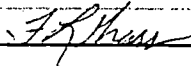
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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, 2015

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 HSB Global Standards

of

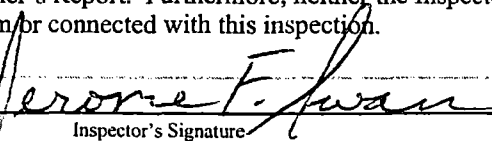
Connecticut

have inspected the components described in this Owner's Report during the period

9-29-15 to 10-12-15, 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



Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-12, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 2/16/2015

Sheet 1 of 2

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

Unit 2

2032207-07

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 2007 Edition with the 2008 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)
2RN1137	Flow Serve	11BFB	1637	N/A	2006	Removed	Yes
2RN1137	Flow Serve	42BWY	3065	N/A	2014	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced valve 2RN1137 and it's bolting material.

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 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

Owner or Owner's Designee, Title

Date February 16, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-8-14 to 2-18-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-18, 2015

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 10/20/2015
526 South Church Street, Charlotte, NC, 28201
Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
Name
12700 Hagers Ferry Road, Huntersville, NC 28078
Address 2097337-38
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
Address Expiration Date: N/A

4. Identification of System CA - Auxiliary Feedwater & 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 2007 Edition with the 2008 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)
CA System	Duke Energy	N/A	73	N/A	1982	<u>Installed</u>	<u>Yes</u>
RN System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC109072

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 40 PSI Test Temp. 80
 *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: 6 & 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2CA33 & 2RN106

Flow Diagram No(s): MCFD-1574-01.00 & 2592.01.01

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: EC109072

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

[Signature]

Date October 20, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

2-18-15 to 10-20-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/10/2015
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 2097343-11
 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 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 2007 Edition with the 2008 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)
2NI888	Flowserve	70BTQ	2831	UTC# 1993253	2012	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added valve 2NI888 per EC110201.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 1500 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: 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2NI78

Flow Diagram No(s): MCFD-2562-03.00

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: EC110201

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

[Signature]

Date October 10, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period

3-17-15 to 10-14-15, 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

Inspector's Signature

[Signature]

Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements

Date 10-14, 2015

1293253

1994022

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 Flowsolve Corporation, 1900 South Saunders Street, Raleigh, N.C. 27603 ✓
(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 ✓ Oconee Nuclear Station, 155 East Pickens Hwy, Seneca, SC 29672
(name and address)
- 4. Model No., Series No., or Type 1885 GATE ✓ Drawing W9925270 ✓ Rev. C ✓ CRN N/A
- 5. ASME Code, Section III, Division 1: 1986 ✓ NO ADDENDA 1 ✓ N/A
(edition) (addenda descr.) (class) (Code Case no.)
- 6. Pump or valve VALVE Nominal Inlet size 2.0 ✓ Outlet size 2.0 ✓
(in.) (in.)
- 7. Material:
 - (a) valve Body SA351-CF8M ✓ Bonnet SA182-316 ✓ Disk NOREM 02A ✓ 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.
<u>70BTQ</u>	<u>2831</u>	<u>L8766-1</u> ✓	<u>32981-4</u> ✓	<u>08C-056-7, 8</u> ✓
<u>71BTQ</u>	<u>2832</u>	<u>L8766-2</u> ✓	<u>150497-19</u> ✓	<u>08C-056-9, 10</u> ✓

* Supplemental information in the 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.

[Handwritten signature]
10-14-15

1993253

199-4022

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 70BTQ-71BTQ

8. Design conditions 2748 (pressure) psi 680 (temperature) °F or valve pressure class 1888

9. Cold working pressure .4531 psi at 100°F

10. Hydrostatic test 6800 psi. Disk differential test pressure 5000 psi

11. Remarks: S.O. 65867-03

GASKET RETAINER; MATL: SA351-CF8M, HEAT NO: M9251, S/N: 6.41

CERTIFICATION OF DESIGN

Design Specification certified by F.A. Bensinger P.E. State PA Reg. no. PE-31002-E
Design Report certified by Ronald S. Farrell P.E. State NC Reg. no. 028656

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 11-26-2012

Date 2/27/12 Name FLOWSERVE CORPORATION Signed [Signature]
(N Certificate Holder) (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 NORTH CAROLINA and employed by HSB, CT

of HARTFORD, CT have inspected the pump, or valve, described in this Data Report on 2/27/12, 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 2/27/12 Signed [Signature] Commission NB13170ANI NC1549
(Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsement) and state or prov. and no.)

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 10/14/2015
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 2097344-14
 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 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 2007 Edition with the 2008 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)
ND System	Duke Energy	N/A	63	N/A	1982	<u>Installed</u>	<u>Yes</u>
2ND126	Flowserve	37BPV	2993	UTC# 2016572	2013	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping and valve 2ND126 per EC110202.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 199 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

Sheet 2 of 2

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

Component Line Size: 2 in. (nominal)

System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2ND13

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: EC110202

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 14, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period

10-3-15 to 10-15-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date

10-15, 2015

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FORM NPV-1 **CERTIFICATE HOLDER'S 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 Street, Raleigh, N.C. 27603 ✓
(name and address of N Certificate Holder)
2. Manufactured for Duke Energy Carolinas, LLC, P.O. Box 37925, Charlotte, N.C. 28237
(name and address of Purchaser)
3. Location of Installation Oconee Nuclear Station, 155 East Pickens Highway, Seneca, S.C., 29672 ✓
(name and address)
4. Model No., Series No., or Type 800 SW GATE / Drawing W9925256 / Rev. C / GRN N/A
5. ASME Code, Section III, Division 1 1986 / NO ADDENDA / 1 / N/A
(edition) [Addenda (if applicable) (date)] (class) (Code Case no.)
6. Pump or valve VALVE / Nominal inlet size 2.00" / Outlet size 2.00"
7. Material
 (a) valve Body SA351-CF8M / Bonnet SA479-316 / Disk SA564-XM13-1100 Bolting N/A
 (b) pump Casing _____ / Cover _____ / Bolting _____

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(a) Certificate Holder's Serial No.	(b) National Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
<u>37BVP</u>	<u>2993</u>	<u>P3491-16</u> /	<u>150717-128</u> /	<u>* SEE REMARKS</u>
<u>38BVP</u>	<u>2994</u>	<u>P3491-17</u> /	<u>150717-129</u> /	<u>* SEE REMARKS</u>
<u>39BVP</u>	<u>2995</u>	<u>P3491-18</u> /	<u>150717-130</u> /	<u>* SEE REMARKS</u>

*Supplemental information in the 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; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

R
J.F.
JAWIT
10-15-15

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* CORRECTED COPY 5/15/2013

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 37BVP - 39BVP

8. Design conditions 1169 psig (pressure) 680 F (temperature) or valve pressure class 800

9. Cold working pressure 1920 psig

10. Hydrostatic test 3000 psig Disk differential test pressure 2200 psig

11. Remarks S.O. 100680-001

GASKET RETAINER - MATL: SA564-630-H1075, HEAT NO: G6672, SERIAL NO: 1(37BVP), 2(38BVP), 3(39BVP)
*DISC - 37BVP (MALE: 32520-1, FEMALE: 23480-1-4); *38BVP (MALE: 32520-2, FEMALE: 23480-1-5)
*39BVP (MALE: 25520-3, FEMALE: 23480-1-6)

CERTIFICATION OF DESIGN

Design Specification certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E
Design Report certified by Richard J. Gradle P.E. State NC Reg. no. 20154

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 11-26-2015

Date 5/15/2013 Name FLOWSERVE CORPORATION Signed [Signature]
(N Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by HSB, CT

of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 4/11/13, 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 5/15/16 Signed [Signature] Commission ND13612AN
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 03378573
Reference : WO 02097344 03
Responsible: E. HAYES JR
Department : 11300

ISSUE TICKET

87924400

PRINTED 04/08/2015
08:11

Title : EC110202 (MV) INSTALL HARDEN WASHER ON VALVE 2ND-126

Deliver To : On Site Delivery

PAGE: 1

VALVE TRAILER

Cmp	Fac	GID	OU	Process	Project	Activity ID	Account	Sub	Acct
DUK	MC	DK	MC02	NFUKUGN	M0111200C	M0110202	0107000		
Reference					Percent				
					100.000000				

Cat ID - PQL	Location	Iss Qty	M/R	Qty	Backlog	UI	Pck	Stg
0000459171 1	A D 07 021 002	1		1			EA	
VALVE, GATE, SPLIT WEDGE, 2", 09G-2008, ASME/ANSI B16.34 CLASS 800, MANUAL, SW, SS, ASME SA351, CF8M , NON-COBALT								

UTC Nbr: 0002016572
Trace 1: M PN#09G-2008
Trace 2: M SN#37BVP

Safety Class(QA Condition): 1

Handwritten signature and date:
T. JOHNSON II
4-23-15

=====
 Issued By : S. BARBEE
 Issue Date : 04/08/2015 Time: 08:11
 Received By: T. JOHNSON II
 =====

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 10/14/2015
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 2097344-18
 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 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 2007 Edition with the 2008 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)
ND System	Duke Energy	N/A	63	N/A	1982	<u>Installed</u>	<u>Yes</u>
2ND126	Flowserve	37BPV	2993	UTC# 2016572	2013	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping and valve 2ND126 per EC110202.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 510 PSI Test Temp. 130 °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-2ND13

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: EC110202

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

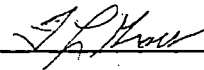
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 11, 2015

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 HSB Global Standards

of

Connecticut

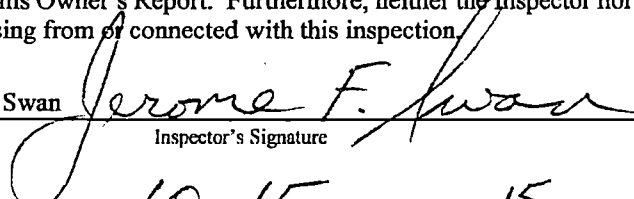
have inspected the components described in this Owner's Report during the period

3-2-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-15, 2015

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FORM NPV-1 CERTIFICATE HOLDER'S 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 Street, Raleigh, N.C. 27603
2. Manufactured for Duke Energy Carolinas, LLC, P.O. Box 37925, Charlotte, N.C. 28237
3. Location of Installation Oconee Nuclear Station, 155 East Pickens Highway, Seneca, S.C., 29672
4. Model No., Series No., or Type 800 SW GATE Drawing W9925256 Rev. C CRN N/A
5. ASME Code, Section III, Division 1 1986 NO ADDENDA 1 N/A
6. Pump or valve VALVE Nominal inlet size 2.00" Outlet size 2.00"
7. Material (a) valve Body SA351-CF8M Bonnet SA479-316 Disk SA564-XM13-1100 Bolting N/A
(b) pump Casing Cover Bolting

Table with 5 columns: (a) Certificate Holder's Serial No., (b) National Board No., (c) Body/Casing Serial No., (d) Bonnet/Cover Serial No., (e) Disk Serial No. Includes handwritten entries for serial numbers 37BVP, 38BVP, 39BVP and corresponding board and disk numbers.

*Supplemental information in the 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; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Handwritten signature and date: R. J. F. JAWIE 10-15-15

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2017021

* CORRECTED COPY 5/15/2013

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 37BVP - 39BVP

- 8. Design conditions 1169 psig (pressure) 680 F (temperature) or valve pressure class 800
- 9. Cold working pressure 1920 psig
- 10. Hydrostatic test 3000 psig Disk differential test pressure 2200 psig

11. Remarks S.O. 100680-001

GASKET RETAINER - MATL: SA564-630-H1075; HEAT NO: G6672; SERIAL NO: 1(37BVP), 2(38BVP), 3(39BVP)
*DISC - 37BVP (MALE: 32520-1, FEMALE: 23480-1-4); *38BVP (MALE: 32520-2, FEMALE: 23480-1-5)
*39BVP (MALE: 25520-3, FEMALE: 23480-1-6)

CERTIFICATION OF DESIGN

Design Specification certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E
 Design Report certified by Richard J. Gradle P.E. State NC Reg. no. 20154

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 11-26-2015

Date 5/15/2013 Name FLOWERVE CORPORATION Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by HSB, CT

of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 4/11/13, 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 5/15/16 Signed [Signature] Commission ND13612AN
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 03378573
Reference : WO 02097344 03
Responsible: E. HAYES JR
Department : 11300

ISSUE TICKET

87924400

PRINTED 04/08/2015

08:11

Title : EC110202 (MV) INSTALL HARDEN WASHER ON VALVE 2ND-126

Deliver To : On Site Delivery

PAGE: 1

VALVE TRAILER

Cmp	Fac	GID	OU	Process	Project	Activity ID	Account	Sub	Acct
DUK	MC	DK	MC02	NFUKUGN	M011200C	M0110202	0107000		
Reference					Percent				
					100.000000				

Cat ID - PQL	Location	Iss Qty	M/R	Qty	Backlog	UI	Pck	Stg
0000459171 1	A D 07 021 002	1		1				EA
VALVE, GATE, SPLIT WEDGE, 2", 09G-2008, ASME/ANSI B16.34 CLASS 800, MANUAL, SW, SS, ASME SA351, CF8M, NON-COBALT								

UTC Nbr: 0002016572
Trace 1: M PN#09G-2008
Trace 2: M SN#37BVP

Safety Class(QA Condition): 1

RA
JAVI
4-23-15

=====
 Issued By : S. BARBEE
 =====
 Issue Date : 04/08/2015 Time: 08:11
 =====
 Received By: T. JOHNSON II
 =====

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 10/14/2015
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 2097346-19
 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 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 2007 Edition with the 2008 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 System	Duke Energy	N/A	54	N/A	1982	<u>Installed</u>	<u>Yes</u>
2FW537	Crane	E5844	N/A	UTC# 30000911	2015	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping and valve 2FW537 per EC110203.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 40 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 & 8 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2FW10

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: EC110203

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

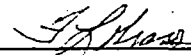
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist
Owner or Owner's Designee, Title



Date October 14, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

4-27-15 to 10-15-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-15, 2015

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 Carolinas, LLC, Dept. ID: DPNMNS, P.O. Box 37925, Charlotte NC 28237-7925
(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 2000 2 --
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4" Outlet size 4"

7. Material:

(a) valve Body <u>SA351 CF8M</u>	Bonnet <u>SA351 CF8M</u>	Disk <u>SA351 CF8M</u>	Bolting <u>See page 2</u>
(b) pump Casting	Cover	Bolting	

(a) Cert. Holder's Serial No. <u> </u>	(b) Nat'l Board No. <u> </u>	(c) Body/Casing Serial No. <u> </u>	(d) Bonnet/Cover Serial No. <u> </u>	(e) Disk Serial No. <u> </u>
---	-------------------------------	--------------------------------------	---------------------------------------	-------------------------------

(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.
E5844	N/A	E5845	E5848	E5850

*RA
JANIE
10-15-15*

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/4 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.

30000911

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

Certificate Holder's Serial No. E5844

- 8 Design conditions 220 (pressure) 189 (temperature) or valve pressure class _____
- 9 Cold working pressure 275
- 10 Hydrostatic test 425 Disk differential test pressure 305
11. Remarks: Bonnet Stud : SA193 Gr B8M & Heat No. : 151871 & Heat Code: BHY
Bonnet Stud Nut : SA194 Gr 8M & Heat No. : 256846
Pipe Nipple : SA312 TP316 & Heat No. 37087 & Trace No. 29816
- CNI Sales Order 44820-01

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 9, 2017

Date 6/15/2015 Name CRANE Nuclear, Inc. Signed Everette Motley
(N Certificate Holder) (Everette Motley)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and employed by HSB Global Standards of Hartford, CT have inspected the pump, or valve, described in this Data Report on 6/15/2015 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 6/15/2015 Signed Mike Hayden Commissions 10989 A.N.I.C
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

30000911

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 03380685
Reference : WO 02097346 07
Responsible: KEEVER EDWARD
Department : 11300

ISSUE TICKET
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02754400
=====

PRINTED 10/11/2015
02:17

Title : EC110203/2FW537/ (MV)- INSPECT/REPACK VALVE 2FW537

Deliver To : On Site Delivery

PAGE: 1

OSF ATTN: Buck Reid or CARROLL HERMAN TEAM 449

=====
Cmp Fac GID OU Process Project Activity-ID
DUK MC DK MC02 NFUKUGN M0110203 M0110203
Account Sub Acct Reference Percent
0107000 100.000000
=====

Cat ID - PQL Location Iss Qty M/R Qty Backlog UI Pck Stg
=====

0000857156	1	VALVE, GATE, 4", 05B-826, ANSI 150, MANUAL, BW, SS, SA351, CF8M, SS W/NON-COBALT HF	1	1	EA		
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UTC Nbr: 0030000911
Trace 1: S SN#E5844
Trace 2: M PN#05B-826

Safety Class(QA Condition): 1

R
JAWII
10-15-15

=====
Issued By : BARBEE SHERRI
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Issue Date : 06/22/2015 Time: 15:30
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Received By: REID JERRY
=====

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 2/17/2015
526 South Church Street, Charlotte, NC, 28201 Sheet 1 of 2
 Address

2. Plant McGuire Nuclear Station Unit 2
12700 Hagers Ferry Road, Huntersville, NC 28078 2097347-10
 Name 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
526 South Church Street, Charlotte, NC 28201-1006 Authorization No.: N/A
 Name Address 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 2007 Edition with the 2008 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)
KF System	Duke Energy	N/A	81	N/A	1982	Installed	Yes
2KF525	Flowserve Corp	38BVP	2994	N/A	2013	Installed	Yes

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping and valve 2KF525 per EC110204.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 8 PSI Test Temp. 70.7
 °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 3
Weld Isometric Drawing No(s): MCFI-2KF-10
Flow Diagram No(s): MCFD-2570-01.00
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 Specialist Date February 17, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 8-20-14 to 2-18-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-18, 2015

2016572

2017020

2017021

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

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders Street, Raleigh, N.C. 27603 ✓
(name and address of N Certificate Holder)
2. Manufactured for Duke Energy Carolinas, LLC, P.O. Box 37925, Charlotte, N.C. 28237
(name and address of Purchaser)
3. Location of installation Oconee Nuclear Station, 155 East Pickens Highway, Seneca, S.C., 29672 ✓
(name and address)
4. Model No., Series No., or Type 800 SW GATE ✓ Drawing W9925256 ✓ Rev. C ✓ CRN N/A
5. ASME Code, Section III, Division 1 1986 ✓ NO ADDENDA 1 ✓ N/A
(edition) [Addenda (if applicable) (date)] (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 2.00" ✓ Outlet size 2.00" ✓
7. Material
 (a) valve Body SA351-CF8M ✓ Bonnet SA479-316 ✓ Disk SA564-XM13-1100 ✓ Bolting N/A
 (b) pump Casing _____ Cover _____ Bolting _____

	(a) Certificate Holder's Serial No.	(b) National Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
<u>2016572</u>	<u>37BVP</u>	<u>2993</u>	<u>P3491-16</u> ✓	<u>150717-128</u> ✓	<u>* SEE REMARKS</u>
<u>2017020</u>	<u>38BVP</u>	<u>2994</u>	<u>P3491-17</u> ✓	<u>150717-129</u> ✓	<u>* SEE REMARKS</u>
<u>2017021</u>	<u>39BVP</u>	<u>2995</u>	<u>P3491-18</u> ✓	<u>150717-130</u> ✓	<u>* SEE REMARKS</u>

*R
J.F.P.
JAWII
2-18-15*

2016572

2017020

2017021

* CORRECTED COPY 5/15/2013

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 37BVP - 39BVP

- 8. Design conditions 1169 psig (pressure) 680 F (temperature) or valve pressure class 800
- 9. Cold working pressure 1920 psig
- 10. Hydrostatic test 3000 psig. Disk differential test pressure 2200 psig

11. Remarks S.O. 100680-001

GASKET RETAINER - MATL: SA564-630-H1075, HEAT NO: G6672, SERIAL NO: 1(37BVP), 2(38BVP), 3(39BVP)
*DISC - 37BVP (MALE: 32520-1, FEMALE: 23480-1-4); *38BVP (MALE: 32520-2, FEMALE: 23480-1-5)
*39BVP (MALE: 25520-3, FEMALE: 23480-1-6)

CERTIFICATION OF DESIGN

Design Specification certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E
 Design Report certified by Richard J. Gradle P.E. State NC Reg. no. 20154

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 11-26-2015

Date 5/15/2013 Name FLOWERVE CORPORATION Signed [Signature]
(N Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by HSB, CT

of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 4/11/13 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 5/15/16 Signed [Signature] Commission NA17612025
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

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 2/16/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2102475-05
 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 Address Authorization No.: N/A
 Expiration Date: N/A

4. Identification of System VI - Instrument Air

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 2007 Edition with the 2008 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)
VI System	Duke Energy	N/A	55	N/A	1982	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced connection A, B, C, and D on panel.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 99 PSI Test Temp. 77
 °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: 1 1/5 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2VI132 & 133

Flow Diagram No(s): MCFD-2605-01.18

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

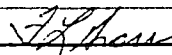
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date February 16, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

1-9-14 to 4-9-14

, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-16, 2015

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 2/19/2015
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 2113201-13
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5572	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5572 per EC103963.

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 3
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): N/A
Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5572
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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
Owner or Owner's Designee, Title

Date February 19, 2015

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 HSB Global Standards of

Connecticut

have inspected the components described in this Owner's Report during the period

1-22-15 to 2-26-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 2-26, 2015

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 2/19/2015
526 South Church Street, Charlotte, NC, 28201
 Address

Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078
 Address 2113201-14
 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
 Address Authorization No.: N/A
 Expiration Date: N/A

4. Identification of System CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5573	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5573 per EC103963.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5573

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

1-28-15 to 2-26-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-26, 2015

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 2/19/2015
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 2113201-15
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5574	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5574 per EC103963.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5574

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

1-28-15 to 2-26-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-26, 2015

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 2/19/2015
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 2113201-16
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5575	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5575 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5575

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

5-21-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
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 2113201-17
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5576	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5576 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5576

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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
Owner or Owner's Designee, Title

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

12-15-14 to 2-26-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-26, 2015

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 2/16/2015
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 2113201-20
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
CA System	Duke Energy	N/A	73	N/A	1982	Installed	Yes

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure *80 PSI Test Temp. 76.3

9F Description (Optional): tests performed per procedure MP/0/A/7650/076 (* test parameters are within operational design per operations)

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-2CA64 & 65

Flow Diagram No(s): MCFD-2592-01.01

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: EC103963

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

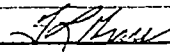
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date February 16, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

5-20-14 to 2-16-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-16, 2015

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 2/19/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2113201-25
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5577	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5577 per EC103963.

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

Sheet 2 of 2

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

Component Line Size: 2 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-CA-5577

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

5-21-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 2/19/2015

Sheet 1 of 2

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

Unit 2

2113201-26

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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5578	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

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

Additional Description Added hanger 2MCA-CA-5578 per EC103963.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5578

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

5-21-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
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 2113202-13
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5560	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5560 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5560

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

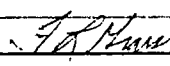
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

5-21-14

to

2-23-15

, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
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 2113202-14
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5561	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5561 per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. 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): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5561

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

5-21-14 to 2-23-15, 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 [Signature] Inspector's Signature

Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/19/2015
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 2113202-15
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5562	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5562 per EC103963.

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): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5562

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

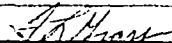
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

5-21-14 to 02-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date

2-23, 2015

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 2/19/2015
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 2113202-16
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
2MAC-CA-5563	Duke Energy	N/A	N/A	N/A	N/A	Installed	No

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-CA-5563 per EC103963.

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): N/A

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5563

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963

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

[Signature]

Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

12-2-14 to 2-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 2/16/2015
526 South Church Street, Charlotte, NC, 28201
 Address

Sheet 1 of 2

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

Unit 2
2113202-19
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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)
CA System	Duke Energy	N/A	73	N/A	1982	Installed	Yes

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

Additional Description Added piping per EC103963.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure *760 PSI Test Temp. 90.5

°F Description (Optional): tests performed per procedure MP/0/A/7650/076 (* test parameters are within operational design per operations)

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

As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): MCFI-2CA63

Flow Diagram No(s): MCFD-2592-01.01

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: EC103963

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 February 16, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 6-19-14 to 2-18-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-18, 2015

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 2/16/2015
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 2118411-17
 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 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 2007 Edition with the 2008 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-5908	Duke Energy	N/A	N/A	N/A	N/A	Corrected	No

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced spring can and the bolting material on hanger 2MCA-NV-5908.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. 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-2554-04.00

Support/Restraint Sketch/Drawing No(s): 2MCA-NV-5908

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

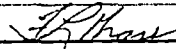
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date February 16, 2015

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 HSB Global Standards

of

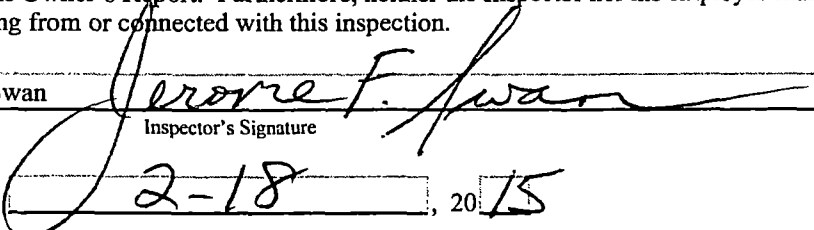
Connecticut

have inspected the components described in this Owner's Report during the period

12-5-14 to 2-18-15, 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


Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-18, 2015

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 2/17/2015
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 2118411-19
 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 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 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	Corrected	Yes
2NV337	BLN Industries	A120803-1-3	N/A	N/A	2012	Installed	Yes
2NV372	BLN Industries	A120803-1-4	N/A	N/A	2012	Installed	Yes

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added Piping, valves 2NV337 and 2NV372 per EC108150.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 76 PSI Test Temp. 106

°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 3

Weld Isometric Drawing No(s): MCFI-2NV205 & 268

Flow Diagram No(s): MCFD-2554-04.00

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

Owner or Owner's Designee, Title

Date February 17, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

3-3-14 to 2-18-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 2-18, 2015

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

Pg. 1 of 2

1. Manufactured and certified by BNL INDUSTRIES, INC., 30 INDUSTRIAL PARK ROAD, VERNON, CT, 06066
(Name and address of N Certificate Holder)
2. Manufactured for DUKE POWER CO, PO BOX 1015, CHARLOTTE, NC 28201-1015
(Name and address of Purchaser)
3. Location of Installation MCGUIRE SITE, 13225 HAGERS FERRY RD HWY 73, HUNTERSVILLE, NC 28078
(Name and address)
4. Model No., Series No., or Type VALVE Drawing ABV-A2-20-0010 Rev. C CAN
5. ASME Code, Section III, Division 1: 2007 2008 2
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve VALVE Nominal Inlet size 2" Outlet size 2"
(in.) (in.)
7. Material: Body SA479 TY316 Bonnet SA479 TY316 Disk SA478 TY316 Bolting SA-463 GR. 660

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
<u>A120803-1-(1 THRU 4)</u>	<u>✓</u>	<u>855E</u>	<u>876E</u>	<u>854E</u>

* Supplemental information in form of sets, 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.

(12/88)

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

RA
JAF
JANUARY
2-18-15

2006044/5/6/7

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

Certificate Holder's Serial No. A120803-1-1 THRU 4

8. Design conditions _____ psi _____ °F or valve pressure class 300 (1)
- (pressure) (temperature)
9. Cold working pressure 720 psi at 100°F
10. Hydrostatic test 1100 psi. Disk differential test pressure 800 psi
11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by JESSE M. HAWKINS P.E. State NC Reg. no. 20159

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-2882 Expires 11/10/13

Date 10/12/12 Name BML INDUSTRIES, INC. Signed [Signature]
(of Certificate Holder) (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 NEW YORK and employed by ONEBEACON AMERICA INC of LYNN, MASS have inspected the pump, or valve, described in this Data Report on 10/12/12, 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 10/12/12 Signed [Signature] Commission NB11002(NAB)NY 51
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

2006044/5/6/7

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 10/14/2015
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 2135947-05
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 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 2007 Edition with the 2008 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)
2NV483	Dresser	TE09055	266	N/A	1978	<u>Removed</u>	<u>Yes</u>
2NV483	Dresser	TE09053	264	N/A	1978	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2NV483 and the bolting material in the flanges to install it.

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: 1 1/2 x 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2NV158 & 161

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

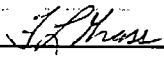
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 14, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-17-15 to 10-16-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-16, 2015



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 INDUSTRIAL VALVE & INSTR. DIV. HIGHWAY 71 NORTH ALEXANDRIA, LOUISIANA
(NAME AND ADDRESS OF N CERTIFICATE HOLDER)
2. MANUFACTURED FOR Mill Power Supply Co., P.O. Box 1339, Charlotte, NC 28232
(NAME AND ADDRESS OF PURCHASER OR OWNER)
3. LOCATION OF INSTALLATION Duke Power Co., McGuire Nuclear Sta., Cowans Ford, NC
(NAME AND ADDRESS)

4. 3NC3004 (DRAWING NO.) 264 (NAT'L BRG. NO.) 1978 (YEAR BUILT)
(CRN)

5. VALVE 1-1/2" 1910-30F/S4-1-XRL1-NC3004 IDENTIFYING NOS. TE09053
(MODEL NO., SERIES NO.) (N CERTIFICATE HOLDERS' SERIAL NO.)
TYPE Safety Relief CLASS 2
(SAFETY, SAFETY RELIEF; PILOT; POWER ACTUATED)

ORIFICE SIZE .650 INCH NOMINAL INLET SIZE 1-1/2" INCH OUTLET SIZE 2" INCH

6. SET PRESSURE (PSIG) 150 RATED TEMPERATURE 225 °F
STAMPED CAPACITY 2627 LBS./HR. @ 10 % OVERPRESSURE BLOWDOWN (PSIG) 7.5
SAT. STEAM

HYDROSTATIC TEST (PSIG) INLET **See Below OUTLET N/A ***
(APPLICABLE TO VALVES FOR CLOSED SYSTEMS ONLY)

7. PRESSURE RETAINING PIECES

	SERIAL NO. OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	AAD53	SA351 Gr. CF8M
BONNET OR YOKE	AAE25	SA351 Gr. CF8M
SUPPORT RODS		
NOZZLE	AAA58	SA182 Gr. F316
DISC	X16110	SA182 Gr. F316
SPRING WASHERS	G9345/G9064	SA479 Type 316/SA182 Gr. 316
ADJUSTING SCREW	G9380	SA479 Type 316
SPINDLE Head	G9380	SA479 Type 316
SPRING	90974	ASTM A313 Type 316
BOLTING		
OTHER PIECES		
Disc Holder	G9392	SA182 Gr. F316
Base Studs	GK11	SA453 Gr. 660
Base Stud Nuts	GK6	SA194 Gr. 6

*SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8-1/2" X 11" (2) INFORMATION IN ITEMS 1-2 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.

Base 450 PSIG *
Nozzle 5575 PSIG
Disc 9275 PSIG
Bonnet 450 PSIG

Handwritten signature and date:
R.A. [Signature]
10-15-15

FORM NV-1 (BACK)

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. I, 1971 EDITION, ADDENDA Summer 1973, CODE CASE NO. N/A

DATE 3-27-78 SIGNED Dresser IVID BY [Signature]
(DATE) (N CERTIFICATE HOLDER) Principal Q.A. Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1747 TO USE THE NV SYMBOL EXPIRES May 20, 1980 (NV)
(DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, La.

STRESS ANALYSIS REPORT (CLASS I ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY T. F. Wyke

STATE North Carolina REG. NO. 4870

STRESS REPORT CERTIFIED BY _____

STATE _____ REG. NO. _____

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 3-27 1978, 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 March 27, 1978

SIGNED [Signature]
(INSPECTOR)

COMMISSIONS National Board No. 7779
(NAT'L. BD. STATE PROV. AND NO.)

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 2/16/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address
2138093-02 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 VG - Diesel Generator Engine Staring Air

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 2007 Edition with the 2008 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)
2VG65	Valcor	27	39	N/A	1976	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bonnet on valve 2VG65.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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 of

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

Weld Isometric Drawing No(s):

Flow Diagram No(s):

Support/Restraint Sketch/Drawing No(s):

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

Certificate of Authorization No.

Expiration Date

Signed *FL Grass*

Date , 20

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

and employed by of

have inspected the components described in this Owner's Report during the period

to , 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*

Inspector's Signature

Commissions

National Board, State, Province, and Endorsements

Date , 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 10/13/2015
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 2148322-10
 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 CF - Feedwater
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 2007 Edition with the 2008 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)
2CF119	Pacific	0241-6	76	N/A	1977	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced disc and body to bonnet bolting material in valve 2CF119.
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

Sheet 2 of 2

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

Component Line Size: 16 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2CF16 & 19

Flow Diagram No(s): MCFD-2591-01.01

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

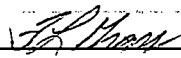
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist
Owner or Owner's Designee, Title



Date October 13, 2015

CERTIFICATE OF INSERVICE INSPECTION

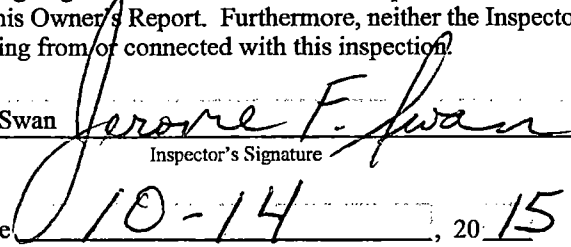
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

9-24-15 to 10-14-15, 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


Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-14, 2015

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 10/13/2015
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 2148323-10
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 CF - Feedwater

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 2007 Edition with the 2008 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)
2CF118	Pacific	0238-6	73	N/A	1977	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced disc and body to bonnet bolting material in valve 2CF118.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure _____ PSI Test Temp. _____
 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 2

Weld Isometric Drawing No(s): MCFI-2CF14 & 17

Flow Diagram No(s): MCFD-2591-01.01

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
Owner or Owner's Designee, Title



Date October 13, 2015

CERTIFICATE OF INSERVICE INSPECTION

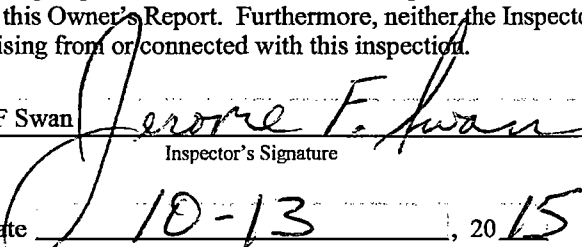
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

9-24-15 to 10-13-15, 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


Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-13, 2015

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 10/8/2015
526 South Church Street, Charlotte, NC, 28201
 Address

Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078
 Address 2148578-01
 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
 Address 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 2007 Edition with the 2008 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-NC-4082	Duke Energy	4424	N/A	N/A	N/A	Removed	Yes
2MCR-NC-4082	Duke Energy	39528	N/A	N/A	N/A	Installed	Yes
2MCR-NC-4082	Duke Energy	6746	N/A	N/A	N/A	Removed	Yes
2MCR-NC-4082	Duke Energy	39529	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubbers on hanger 2MCR-NC-4082

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: 1 1/2 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): 2MCR-NC-4082

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

Owner or Owner's Designee, Title

Date October 8, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-1-15 to 10-12-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-12, 2015

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 10/13/2015
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 2148612-11
 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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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 System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material in flange at valve 2RN174.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 86 PSI Test Temp. 57 °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: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2RN20

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:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

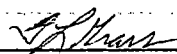
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

9-22-15 to 10-12-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-13, 2015

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 2/19/2015
526 South Church Street, Charlotte, NC, 28201
 Address

Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078
 Address 2150466-01
 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
 Address Authorization No.: N/A
 Expiration Date: N/A

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

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 2007 Edition with the 2008 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)
2VG66	Valcor	8	32	N/A	1976	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bonnet assembly on valve 2VG66.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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 of

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

Weld Isometric Drawing No(s):

Flow Diagram No(s):

Support/Restraint Sketch/Drawing No(s):

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

Certificate of Authorization No.

Expiration Date

Signed *JR Huns*
Owner or Owner's Designee, Title

Date , 20

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

and employed by of

have inspected the components described in this Owner's Report during the period

to , 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*
Inspector's Signature

Commissions
National Board, State, Province, and Endorsements

Date , 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 10/10/2015
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 2150540-03
 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 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 2007 Edition with the 2008 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)
2NV492	Weston Hydraulics	74460-8002	52	N/A	1976	Removed	Yes
2NV492	Flowserve	95BXW	3063	UTC# 2033256	2014	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2NV492 per EC113668.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 1985 PSI Test Temp. 92.7

°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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): MCFI-2NV294

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:

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

[Signature]

Date October 10, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

2-12-15 to 10-13-15, 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

Inspector's Signature

Commissions

NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-13, 2015

Certificate Holder's Serial No. 95BWX

8. Design conditions 2735 psig 609 F or valve pressure class 1500
(pressure) (temperature)
9. Cold working pressure 3600 psig
10. Hydrostatic test 5400 psig . Disk differential test pressure 4000 psig
11. Remarks S.O. 103905-005
PIPE NIPPLE - MATL: SA312-TP304, HEAT NO: 8343H

CERTIFICATION OF DESIGN

Design Specification certified by Fred R. Setzer P.E. State NC Reg. no. 20225
 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-1562 Expires 11-26-2015

Date March 31, 2014 Name FLOWSERVE CORPORATION Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut

of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 3/31/14, 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 3/31/14 Signed [Signature] Commission HB 12442 ANI
(Authorized Nuclear Inspector) (National Board Number and Endorsement)

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 10/7/2015
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 2150540-07
 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 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 2007 Edition with the 2008 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-5251	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Plate replaced on hanger 2MCA-NV-5251 per EC113668.

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): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-NV-5251

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC113668

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

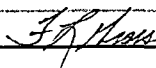
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 7, 2015

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 HSB Global Standards

of

Connecticut

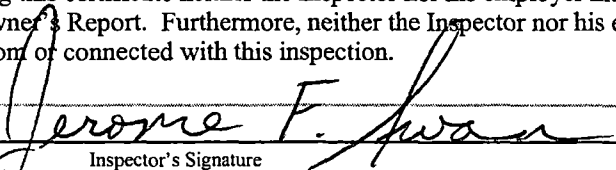
have inspected the components described in this Owner's Report during the period

2-12-15 to 10-13-15, 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

Inspector's Signature



Commissions

NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-13, 2015

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 10/22/2015
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 2151871-11
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 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 2007 Edition with the 2008 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-KC-4821	Duke Energy	N/A	N/A	N/A	N/A	<u>Corrected</u>	<u>Yes</u>
2MCR-KC-4823	Duke Energy	N/A	N/A	N/A	N/A	<u>Corrected</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material in hangers 2MCR-KC-4821 & 4823.

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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2573.03.00

Support/Restraint Sketch/Drawing No(s): 2MCR-KC-4821 & 4823

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC107855

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

[Signature]

Date October 22, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period

9-29-15 to 10-22-15, 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

Inspector's Signature

[Signature]

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-22, 2015

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 10/22/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2
2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2151871-18
 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 Address 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 2007 Edition with the 2008 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-KC-4671	Duke Energy	N/A	N/A	N/A	N/A	<u>Corrected</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced item# 7 on hanger 2MCR-KC-4671.
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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2573-03.00

Support/Restraint Sketch/Drawing No(s): 2MCR-KC-4671

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

[Signature]

Date October 22, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period

10-1-15 to 10-22-15, 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

Inspector's Signature

[Signature]

Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements

Date 10-1, 2015

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 2/19/2015
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 2151894-01
 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 VG - Diesel Generator Engine Staring Air

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 2007 Edition with the 2008 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)
2VG5160	Valcor	8	493	N/A	1992	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bonnet assembly on valve 2VG5160.

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: 1 1/2 in. (nominal)

System Class: ASME Class 3

Weld Isometric Drawing No(s): N/A

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.

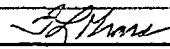
Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist

Owner or Owner's Designee, Title



Date February 19, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

1-26-15 to 2-23-15 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 2-23, 2015

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 10/11/2015
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 2153808-13
 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 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 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Installed orifice and it's bolting material per EC112794.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure _____ PSI Test Temp. _____
- 9F 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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2554-01.00

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: EC112794

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

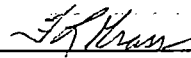
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 11, 2015

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 HSB Global Standards of Connecticut

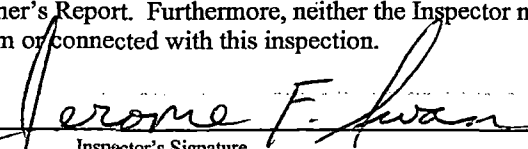
have inspected the components described in this Owner's Report during the period

9-27-15 to 10-14-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-14, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 7/7/2014
 Sheet 1 of 2

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

Unit 2
2157572-11
 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 YC - Chilled 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)
see section 7	Duke Energy	N/A	N/A	N/A	N/A	Corrected	No

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Installed item 2 back to item 3 on hanger 2MCA-S-YC-503-01-CC (after replacement of valve IYC184).

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: 1 1/2 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-1YC36

Flow Diagram No(s): MCFD-1618-02.00

Support/Restraint Sketch/Drawing No(s): 2MCA-S-YC-503-01-CC

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

Owner or Owner's Designee, Title

Date July 7, 2014

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

The Hartford Steam Boiler Inspection and Insurance Company

of

Connecticut

have inspected the components described in this Owner's Report during the period

6-17-14 to 7-8-14, 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

Inspector's Signature

Commissions

NB11473-NC1524, N-I

National Board, State, Province, and Endorsements

Date 7-8, 2014

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 10/8/2015
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 2159188-33
 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 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 2007 Edition with the 2008 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 System	Duke Energy	N/A	83	N/A	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material in rupture restraint on cold leg of 2A.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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: 1 1/2 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2562-01.00

Support/Restraint Sketch/Drawing No(s): MC-1690-391 Item#11

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

Owner or Owner's Designee, Title

Date October 8, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-27-15 to 10-12-15, 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

Inspector's Signature

Commissions

NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-12, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 10/6/2015
 Sheet 1 of 2

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

Unit 2
2160380-02
 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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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-NC-SG-D	Duke Energy	9	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced control valves (cone & seat) in the upper lateral support for 2D SG

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 1

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:

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, 2015

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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-16-15 to 10-6-15, 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*
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-6, 2015

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 3/10/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2162666-01
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-57	Duke Energy	19153	N/A	N/A	N/A	Removed	No
2MCA-CA-57	Duke Energy	39159	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber and it's bolting material on hanger 2MCA-CA-57.

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

Sheet 2 of 2

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

Component Line Size: 6 in. (nominal)

System Class: ASME Class 2

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2592-01.00

Support/Restraint Sketch/Drawing No(s): 2MCA-CA-57

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

Owner or Owner's Designee, Title

Date March 10, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

3-3-15 to 3-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 3-23, 2015

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 10/12/2015
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 2172693-07
 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 2007 Edition with the 2008 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)
2RN1137	Flowserve	42BWY	3065	N/A	2014	<u>Removed</u>	<u>Yes</u>
2RN1137	Flowserve	48BEK	1594	UTC# 1089468	2006	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2RN1137.

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 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

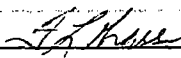
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date October 12, 2015

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 HSB Global Standards of

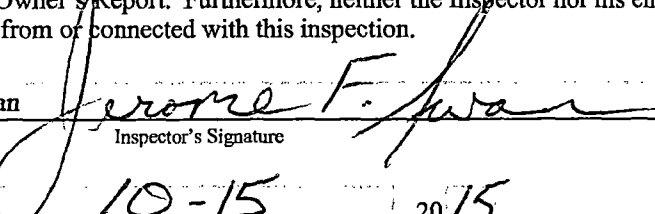
Connecticut have inspected the components described in this Owner's Report during the period

9-18-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-15, 2015

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

1. Manufactured by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)

2. Manufactured for Duke Energy Corp. PO Box 1015 Charlotte, NC 28201-1015
(Name and Address of Purchaser or Owner)

3. Location of Installation Catawba Site, 4800 Concord Rd., York, SC 29745
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"
(inch) (inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	<u>600#</u>	<u>48BEK</u>	<u>N/A</u>	<u>W0025607, Rev. -</u>	<u>1</u>	<u>1594</u>	<u>2006</u>
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 2"-600# DURABLE CHECK VALVE
(Brief description of service for which equipment was designed) 35507-02

6. Design Conditions 1440 psi 100 °F or Valve Pressure Class 600 (1)
(Pressure) (Temperature)

7. Cold Working Pressure 1440 psi at 100 °F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>ESRU-1</u>	<u>SA351-CF8M</u>	<u>Flowserve</u>	<u>Body</u>
(b) Forgings			
<u>22096-5</u>	<u>SA479-316L</u>	<u>Dubose</u>	<u>Disk/Stem</u>
<u>21856-3</u>	<u>SA479-316L</u>	<u>Dubose</u>	<u>Seat Ring</u>

10 89468.

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

2

Valve S/N 48BEK through

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

9. Hydrostatic test 2175 psi. Disk Differential test pressure 1584 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, to the rules of construction conforms of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1., Edition 1989

Addenda No Addenda, Code Case No. N/A, Date 2-23-06

Signed Flowserve Corp. by [Signature]
(N Certificate Holder)

Our ASME Certificate of Authorization No. N-1562 to use the N symbol expires 11-26-06
(Date)

CERTIFICATION OF DESIGN

Design information on file at Flowserve Corporation Raleigh, NC

Stress analysis report (Class 1 only) on file at Flowserve Corporation Raleigh, NC

Design specifications certified by (1) F.A. Bensingier

PE State PA Reg. No. PE-31002-E

Stress analysis certified by (1) T.C. Bartlett

PE State PA Reg. No. PE-039036-E

(1) Signature not required. List name only. **10 89 46 8**

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 North Carolina and employed by HSB CT of Hartford Connecticut

have inspected the pump, or valve, described in this Data Report on 2124106, and state that, to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with ASME Code, Section III.

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

Date 2124106

Signed [Signature] Commissions NB# 11666 NSA NC# 1921
(Inspector) (Nat'l Bd., State, Prov. and No.)

Handwritten:
R. F. J. [Signature]
JANU
10-15-15

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 10/19/2015
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 2174072-27
 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 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 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Installed orifice per EC102374.
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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2554-03.01

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: EC102374

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 19, 2015

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 HSB Global Standards of Connecticut

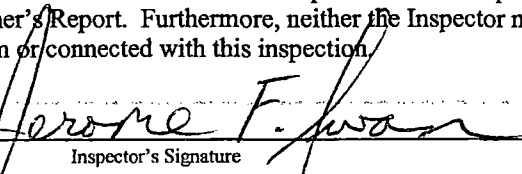
have inspected the components described in this Owner's Report during the period

9-19-15 to 10-19-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-19, 2015

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 10/8/2015
526 South Church Street, Charlotte, NC, 28201 Address
 Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address
2176147-01 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 Address
 Authorization No.: N/A
 Expiration Date: N/A

4. Identification of System CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-69	Duke Energy	22	N/A	N/A	N/A	Removed	Yes
2MCR-CA-69	Duke Energy	39545	N/A	N/A	N/A	Installed	Yes
2MCR-CA-69	Duke Energy	23	N/A	N/A	N/A	Removed	Yes
2MCR-CA-69	Duke Energy	39544	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubbers on hanger 2MCR-CA69.

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

Sheet 2 of 2

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

Component Line Size: 6 in. (nominal) System Class: ASME Class 2
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2592-01.00
Support/Restraint Sketch/Drawing No(s): 2MCR-CA-69
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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-1-15 to 10-12-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-12, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 9/29/2015
 Sheet 1 of 2

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

Unit 2
2176148-01
 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 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 2007 Edition with the 2008 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-NC-4264	Duke Energy	46	N/A	N/A	N/A	Removed	Yes
2MCR-NC-4264	Duke Energy	39539	N/A	N/A	N/A	Installed	Yes
2MCR-NC-4264	Duke Energy	54	N/A	N/A	N/A	Removed	Yes
2MCR-NC-4264	Duke Energy	39543	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubbers on hanger 2MCR-NC-4264

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

Sheet of

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

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

Weld Isometric Drawing No(s):

Flow Diagram No(s):

Support/Restraint Sketch/Drawing No(s):

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

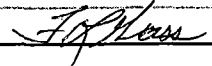
CERTIFICATE OF COMPLIANCE

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

Certificate of Authorization No.

Expiration Date

Signed 

Date , 20

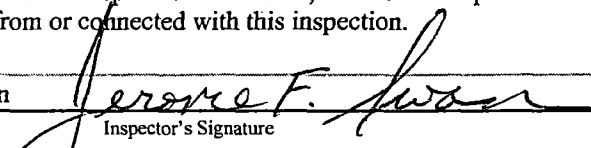
Owner or Owner's Designee, Title

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 and employed by of have inspected the components described in this Owner's Report during the period

to , 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 
Inspector's Signature

Commissions
National Board, State, Province, and Endorsements

Date , 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 9/29/2015
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 2176151-01
 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 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 2007 Edition with the 2008 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-KC-4132	Duke Energy	61218-50	N/A	N/A	N/A	Removed	Yes
2MCR-KC-4132	Duke Energy	39520	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-KC-4132.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2573-03.00

Support/Restraint Sketch/Drawing No(s): 2MCR-KC-4132

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

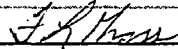
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 29, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-1-2015

to 9-29-2015

, 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

Inspector's Signature

Commissions

NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 9-29, 2015

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 9/18/2015
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 2176154-01
 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 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 2007 Edition with the 2008 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-S-KC-171-05B	Duke Energy	34	N/A	N/A	N/A	Removed	Yes
2MCR-S-KC-171-05B	Duke Energy	39530	N/A	N/A	N/A	Installed	Yes
2MCR-S-KC-171-05B	Duke Energy	42	N/A	N/A	N/A	Removed	Yes
2MCR-S-KC-171-05B	Duke Energy	39541	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-S-KC-171-05-B

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

Sheet 2 of 2

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

Component Line Size: 1 1/2 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2573.03-01

Support/Restraint Sketch/Drawing No(s): 2MCR-S-KC-171-05-B

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

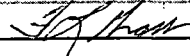
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 18, 2015

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 HSB Global Standards

of

Connecticut

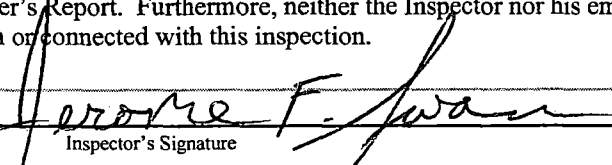
have inspected the components described in this Owner's Report during the period

9-1-15 to 9-18-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 9-18, 2015

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 9/29/2015
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 2176155-01
 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 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 2007 Edition with the 2008 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-S-KC-177-01C	Duke Energy	61218-48	N/A	N/A	N/A	Removed	Yes
2MCR-S-KC-177-01C	Duke Energy	39523	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-S-KC-177-01C.

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 3

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2573-03.00

Support/Restraint Sketch/Drawing No(s): 2MCR-S-KC-177-01C

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 29, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

9-1-15 to 9-29-15, 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*
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 9-29, 2015

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 10/8/2015
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 2176160-01
 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 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 2007 Edition with the 2008 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-4481	Duke Energy	47	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4481	Duke Energy	39518	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-NV-4481.

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

Sheet 2 of 2

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

Component Line Size: 3 in. (nominal) System Class: ASME Class 2
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2554-01.02
Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4481
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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-1-15 to 10-12-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-12, 2015

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 10/8/2015
526 South Church Street, Charlotte, NC, 28201
 Address

Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078
 Address 2176161-01
 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
 Address 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 2007 Edition with the 2008 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-4488	Duke Energy	52	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4488	Duke Energy	39538	N/A	N/A	N/A	Installed	Yes
2MCR-NV-4488	Duke Energy	55	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4488	Duke Energy	39547	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-NV-4488.

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

Sheet of

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

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

Weld Isometric Drawing No(s):

Flow Diagram No(s):

Support/Restraint Sketch/Drawing No(s):

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

Certificate of Authorization No. Expiration Date

Signed *FL Grass* Date , 20
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 and employed by of have inspected the components described in this Owner's Report during the period to , 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
Inspector's Signature National Board, State, Province, and Endorsements

Date , 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 9/18/2015
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 2176162-01 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 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 2007 Edition with the 2008 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-4496	Duke Energy	51	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4496	Duke Energy	39516	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCA-NV-4496.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. Description (Optional):

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

As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

Component Line Size: 3 in. (nominal) System Class: ASME Class 2
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2554-01.02
Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4496
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 *FLG* Date September 18, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-1-15 to 10-12-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-12, 2015

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 10/8/2015
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 2176164-01
 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 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 2007 Edition with the 2008 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-4246	Duke Energy	39	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4246	Duke Energy	39532	N/A	N/A	N/A	Installed	Yes
2MCR-NV-4246	Duke Energy	40	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4246	Duke Energy	39546	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-NV-4246.

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

Sheet 2 of 2

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

Component Line Size: 2 in. (nominal) System Class: ASME Class 2
Weld Isometric Drawing No(s):: N/A
Flow Diagram No(s):: MCFD-2554-01.00
Support/Restraint Sketch/Drawing No(s):: 2MCR-NV-4246
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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-1-15 to 10-12-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-12, 2015

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 9/29/2015
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 2176165-01
 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 CF - Feedwater

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 2007 Edition with the 2008 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-CF-145	Duke Energy	5681	N/A	N/A	N/A	Removed	Yes
2MCA-CF-145	Duke Energy	39526	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCA-CF-145

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): N/A

Flow Diagram No(s):

MCFD-2591-01.01

Support/Restraint Sketch/Drawing No(s):

2MCA-CF-145

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.

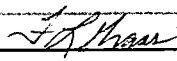
N/A

Expiration Date

N/A

Signed FL Grass, Quality Assurance Technical Specialist

Owner or Owner's Designee, Title



Date September 29, 20

15

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 HSB Global Standards of

Connecticut

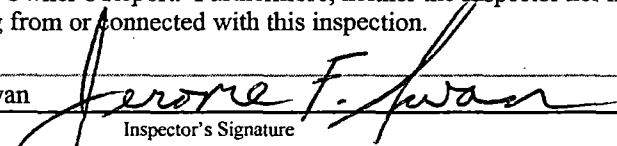
have inspected the components described in this Owner's Report during the period

9-1-15 to 9-29-15, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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JF Swan

Inspector's Signature



Commissions

NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date

9-29

, 20

15

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
526 South Church Street, Charlotte, NC. 28201
 Address

Date 3/10/2015
 Sheet 1 of 2

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

Unit 2
2176178-01
 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 ND - Residual Heat Removal

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 2007 Edition with the 2008 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-6406	Duke Energy	49	N/A	N/A	N/A	Removed	No
2MCA-ND-6406	Duke Energy	39509	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCA-ND-6406

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F Description (Optional):

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

As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-ND-6406

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 March 10, 2015

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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period

3-9-15 to 3-12-15, 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 Inspector's Signature

Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements

Date 3-12, 2015

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 3/10/2015
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 2176179-01
 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 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 2007 Edition with the 2008 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-5817	Duke Energy	36	N/A	N/A	N/A	Removed	No
2MCA-NV-5817	Duke Energy	39508	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance

Additional Description Replaced snubber on hanger 2MCA-NV-5817

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 2

Weld Isometric Drawing No(s): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-NV-5817

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

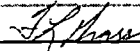
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date March 10, 2015

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 HSB Global Standards

of

Connecticut

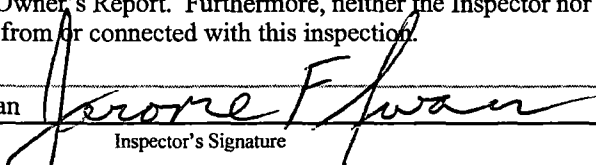
have inspected the components described in this Owner's Report during the period

3-9-15 to 3-23-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 3-23, 2015

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 3/12/2015
526 South Church Street, Charlotte, NC, 28201
Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
Name
12700 Hagers Ferry Road, Huntersville, NC 28078
Address 2176180-01
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 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 2007 Edition with the 2008 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-7016	Duke Energy	45	N/A	N/A	N/A	Removed	No
2MCA-NV-7016	Duke Energy	39527	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCA-NV-7016

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F 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 2

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2555-02.0

Support/Restraint Sketch/Drawing No(s): 2MCA-NV-7016

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 March 12, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

3-9-15 to 3-23-15 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*
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 3-23, 2015

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 3/16/2015
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 2176182-01
 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 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 2007 Edition with the 2008 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-5010	Duke Energy	612218-47	N/A	N/A	N/A	Removed	No
2MCA-NV-5010	Duke Energy	39521	N/A	N/A	N/A	Installed	No

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCA-NV-5010.

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): N/A

Flow Diagram No(s): MCFD-2554-01.01

Support/Restraint Sketch/Drawing No(s): 2MCA-NV-5010

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

Owner or Owner's Designee, Title

Date March 16, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

3-12-15 to 3-23-15, 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 3-23, 2015

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 10/4/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2176187-01
 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 VI - Instrument Air

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 2007 Edition with the 2008 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-VI-18	Duke Energy	46	N/A	N/A	N/A	Removed	Yes
2MCR-VI-18	Duke Energy	39517	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCR-VI-18

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. Description (Optional):

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

As Required by the Provisions of the ASME Code Section XI

Sheet of

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

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

Weld Isometric Drawing No(s):

Flow Diagram No(s):

Support/Restraint Sketch/Drawing No(s):

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

Certificate of Authorization No. Expiration Date

Signed *JL Grass* Date , 20

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 and employed by of have inspected the components described in this Owner's Report during the period to , 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

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

Date , 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 10/15/2015
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 2176482-03
 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 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 2007 Edition with the 2008 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)
2NV93	Dresser	TE09047	291	N/A	1978	<u>Removed</u>	<u>Yes</u>
2NV93	Dresser	TG33993	1879	UTC# 2054732	1984	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2NV93
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

Sheet 2 of 2

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

Component Line Size: 4 X 6 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2NV99

Flow Diagram No(s): MCFD-2554-01.01

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

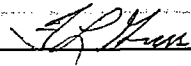
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist
Owner or Owner's Designee, Title



Date October 15, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period 9-29-15 to 10-15-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-15, 2015

INDUSTRIAL VALVE OPERATIONS 

ALEXANDRIA, LOUISIANA 71301

FORM NV-1 IN 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 INDUSTRIAL VALVE OPERATIONS, DRESSER INDUSTRIES INC, HIGHWAY 71 NORTH ALEXANDRIA, LA.
(NAME AND ADDRESS OF IN CERTIFICATE HOLDER)

2. MANUFACTURED FOR Duke Power Company, P. O. Box 32307, Charlotte, NC 28232
(NAME AND ADDRESS OF PURCHASER OR OWNER)

3. LOCATION OF INSTALLATION Duke Power Co., McGuire Nuc. Sta/Hwy 73, Cowans Ford 28216
(NAME AND ADDRESS) Box 488, Cornelius, NC

4. NC3021 1879 1984
(CRN) (DRAWING NO.) (NATL. BRD. NO.) (YEAR BUILT)

5. VALVE 4-1910-30P-2-XMB1-NC3021 IDENTIFYING NOS TG-33993
(MODEL NO., SERIES NO.) (IN CERTIFICATE HOLDERS' SERIAL NO.)
TYPE Safety Relief CLASS _____
(SAFETY, SAFETY RELIEF; PILOT; POWER ACTUATED) 4

ORIFICE SIZE 3.073 INCH NOMINAL INLET SIZE _____ INCH OUTLET SIZE 6 INCH

6. SET PRESSURE (PSIG) 150 RATED TEMPERATURE Saturated OF _____

STAMPED CAPACITY 58,688 LBS./HR. @ 10 % OVERPRESSURE BLOWDOWN (PSIG) 7.5
SAT. STEAM

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	<u>AAR19</u>	<u>SA351, Gr. CF8M</u>
BONNET OR YOKE	<u>AAP48</u>	<u>SA351, Gr. CF8M</u>
SUPPORT RODS		
NOZZLE	<u>AAE04</u>	<u>SA182, Gr. F316</u>
DISC	<u>A18236</u>	<u>SA479, Type 316</u>
SPRING WASHERS		
ADJUSTING SCREW		
SPINDLE		
SPRING		
BOLTING Studs	<u>NL29/GK49</u>	<u>SA453, Gr. 660</u>
OTHER PIECES Nuts	<u>NL14</u>	<u>SA194, Gr. 6</u>

*SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8-1/2" X 11" (2) INFORMATION IN ITEMS 1-2 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.

****Base 450 PSIG**
Nozzle 1500 PSIG
Disc 1500 PSIG

*****Bonnet 450 PSIG**

RA
JAN 11
10-15-15

FORM NV-1 (BACK)

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. I, 1971 EDITION, ADDENDA Summer 1973, CODE CASE NO. N/A

DATE 10-24-84 SIGNED IVO, Dresser Ind., Inc. BY [Signature]
(DATE) (IN CERTIFICATE HOLDER) Principal Quality Assurance Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1747 TO USE THE NV SYMBOL EXPIRES May 20, 1986 (DATE) (NV)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, La.
STRESS ANALYSIS REPORT (CLASS I ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY R. E. Miller
PE STATE North Carolina REG. NO. 4860

STRESS REPORT CERTIFIED BY _____
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 10/24 1984 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 10/24, 1984 SIGNED [Signature] COMMISSIONS National Board 5506
(INSPECTOR) Louisiana 451
(NAT'L. BO. STATE PROV. AND NO.)

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 10/7/2015
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 2176482-14
 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 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 2007 Edition with the 2008 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-4217	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Weld Repair
 Additional Description Re-welded hanger 2MCR-NV-4217.

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 2

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): N/A

Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4217

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
Owner or Owner's Designee, Title



Date October 7, 2015

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 HSB Global Standards of

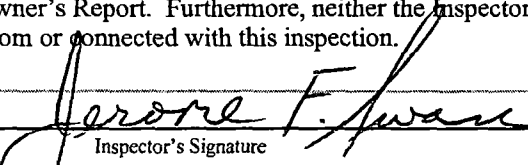
Connecticut

have inspected the components described in this Owner's Report during the period

10-1-15 to 10-13-15, 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
Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-13, 2015

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 10/13/2015
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 2176818-04
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 _____
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 2007 Edition with the 2008 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)
2NC1	Crosby	156925-00-0009	525	N/A	1978	<u>Removed</u>	<u>Yes</u>
2NC1	Crosby	N56925-00-0001	25	N/A	1974	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
Additional Description Replaced valve 2NC1.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 2250 PSI Test Temp. 558.1
°F Description (Optional): Test performed per procedure MP/0/A/7700/045 & MP/0/A/7650/076 (full temperature and pressure walkdown on W/O 2177930-01).

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-2NC7 & 53

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:

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

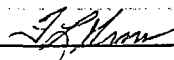
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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, 2015

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 HSB Global Standards of Connecticut

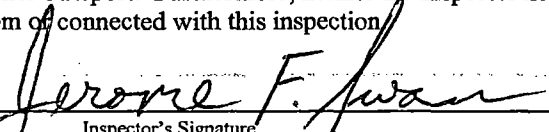
have inspected the components described in this Owner's Report during the period

10-1-15 to 10-13-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date

10-13, 2015

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 10/20/2015
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 2177064-01
 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 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 2007 Edition with the 2008 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)
2NV496	ITT Grinnell	73-8013-6-9	WR708	N/A	1974	<u>Corrected</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced body to bonnet nuts on valve 2NV496.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure _____ PSI Test Temp. _____ °F
 Description (Optional): 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-2NV163

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

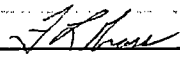
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 20, 2015

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 HSB Global Standards of

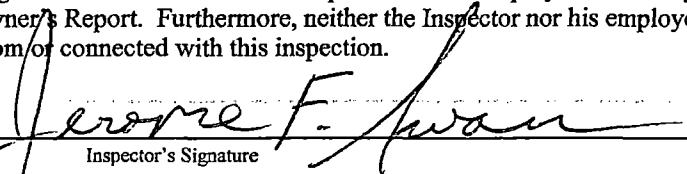
Connecticut have inspected the components described in this Owner's Report during the period

9-24-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/7/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2177437-28
 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 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 2007 Edition with the 2008 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-4380	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material on hanger 2MCR-NV-4380.

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-2554-01.01

Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4380

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 *[Signature]* Date October 7, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 10-6-15 to 10-12-15, 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 *[Signature]* Commissions NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-12, 2015

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 10/20/2015
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 2177437-29
 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 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 2007 Edition with the 2008 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	<u>Corrected</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material 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: 1 1/2 in. (nominal) System Class: ASME Class 1

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2554-01.01

Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4381

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 20, 2015

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 HSB Global Standards of

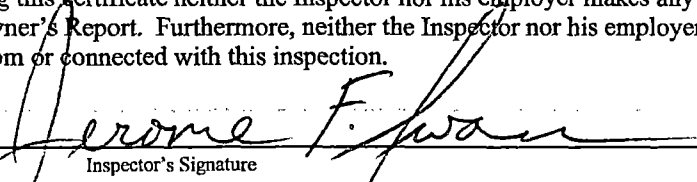
Connecticut have inspected the components described in this Owner's Report during the period

10-2-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/20/2015
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 2177837-15
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 VI - Instrument 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 2007 Edition with the 2008 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)
VI System	Duke Energy	N/A	55	N/A	1982	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
Additional Description Replaced 2SM5 control panel and remade VI connections.
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

Sheet 2 of 2

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

Component Line Size: 1 1/2 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2VI134

Flow Diagram No(s): MCFD-2605-01.18

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

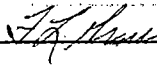
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 20, 2015

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 HSB Global Standards of Connecticut

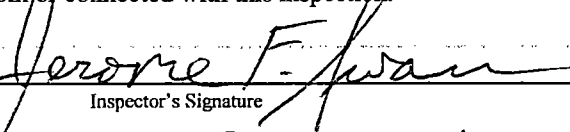
have inspected the components described in this Owner's Report during the period

9-18-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/10/2015
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 2177864-15
 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 VI - Instrument Air
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 2007 Edition with the 2008 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)
VI System	Duke Energy	N/A	55	N/A	1982	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced 2SM3 control panel and remade VI connections.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure _____ PSI Test Temp. _____
- 9F 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

Sheet 2 of 2

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

Component Line Size: 1 1/2 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2VI134

Flow Diagram No(s): MCFD-2605-01.00

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 Specialist



Date October 10, 2015

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 HSB Global Standards of Connecticut

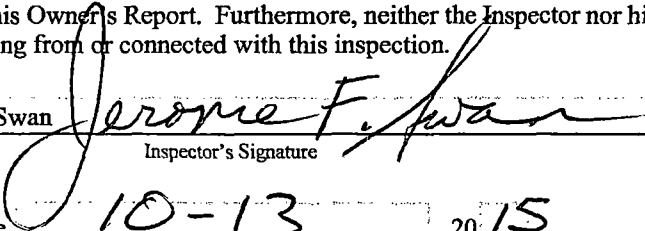
have inspected the components described in this Owner's Report during the period

9-18-15 to 10-13-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-13, 2015

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 9/29/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2178657-01
 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 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 2007 Edition with the 2008 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-4098	Duke Energy	75	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4098	Duke Energy	39542	N/A	N/A	N/A	Installed	Yes
2MCR-NV-4098	Duke Energy	4890	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4098	Duke Energy	39533	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubbers on hanger 2MCR-NV-4098

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-2554-01.02

Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4098

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 29, 2015

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 HSB Global Standards of

Connecticut have inspected the components described in this Owner's Report during the period

9-1-15 to 10-1-15, 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*

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-1, 2015

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 10/8/2015
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 2178658-01
 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 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 2007 Edition with the 2008 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-4366	Duke Energy	61224-30	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4366	Duke Energy	39534	N/A	N/A	N/A	Installed	Yes
2MCR-NV-4366	Duke Energy	61244-121	N/A	N/A	N/A	Removed	Yes
2MCR-NV-4366	Duke Energy	39540	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubbers on hanger 2MCR-NV-4366.

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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2554-01.00

Support/Restraint Sketch/Drawing No(s): 2MCR-NV-4366

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

Owner or Owner's Designee, Title

Date October 8, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-1-15 to 10-12-15, 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

Inspector's Signature

Commissions

NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-12, 2015

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 10/11/2015
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 2179058-06
 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 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 2007 Edition with the 2008 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)
KC system	Duke Energy	N/A	78	N/A	1982	<u>Corrected</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material in flange between valves 2KC235 & 2KC424.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure: _____ PSI Test Temp. _____
- 9F 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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

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

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

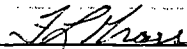
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date October 11, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-19-15 to 10-13-15, 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


Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date

10-13, 2015

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 10/8/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2184871-16
 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 Address Expiration Date: N/A

4. Identification of System CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5621	Duke Energy	N/A	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Installed hanger 2MCA-CA-5621 per EC101081.

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): MCFD-2592-01.00
Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5621
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101081

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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 3-30-15 to 10-13-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-13, 2015

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 10/7/2015
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
2184871-32 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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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)
1MCA-RN-3416	Duke Energy	N/A	N/A	N/A	N/A	Installed	Yes

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added hanger 2MCA-RN-3416 per EC101081.

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: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-RN-3416

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101081

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 7, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-14-15 to 10-12-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-13, 2015

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 10/20/2015
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 2184871-33
 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 2007 Edition with the 2008 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 System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>
2RN448	Crane	D5362	N/A	UTC# 1821019		<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Add piping and valve 2RN448 per EC101081.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 88 PSI Test Temp. 57
 °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: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2RN209

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: EC101081

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

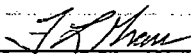
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 20, 2015

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 HSB Global Standards of

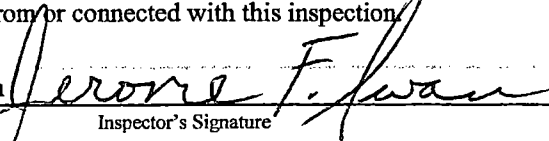
Connecticut have inspected the components described in this Owner's Report during the period

4-13-15 to 9-22-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-21, 2015

FORM NPV-1 (Back) — Pg. 2 of 2

Certificate Holder's Serial No. 05361 through 05362

8 Design conditions 135 (pressure) psi 150 (temperature) °F or valve pressure class _____ (1)

9. Cold working pressure 275 psi at 100°F

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

11. Remarks:

PO No. OP20357, PO Item 0010, Duke Item No. 1MV-559
CNI SO No. 28431-01
Hinge Pin Plugs: ASME SA182 F316, Heat # 56457 Cover Plug: ASME SA182 F316, Heat # 56457, Code ACT
Bolting: Studs, Heat # 131871 Nuts, Heat # 729669 Trace Code 301C

CERTIFICATION OF DESIGN

Design Specifications certified by Jesse M. Hawkins P.E. State NC Reg. no. 20159
 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

Date August 30, 2008 Name CRANE Nuclear, Inc. Signed Jerome A. Krowicki
(N Certificate Holder) Sr. QA Engineer

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 August 30, 2008 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 08/30/08 Signed Fred Ouyang Commissions IL 1005
(Authorized Nuclear Inspector) (Nat'l. Bd. find. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

TIBIA81

Facility : MC
Warehouse : 2
Mtl Rqst : 03371574
Reference : WO 02184871 06
Responsible: ROBINSON ELIZABETH
Department : 23438

ISSUE TICKET
=====

89914400
=====

PRINTED 08/14/2015
11:08

Title : EC101081/2RN449/INSPECT/TORQUE 8" SWING CHECK(I.N. 1MV-559)

Deliver To : On Site Delivery

PAGE: 1

Deliver to valve team Carol Herman

Cmp Fac	GID	OU	Process	Project	Activity-ID
DUK MC	DK	MC02	MODNEV	M101081C	M101081C
Account	Sub	Acct	Reference		Percent
0107000					100.000000

Cat ID - PQL	Location	Iss Qty	M/R Qty	Backlog	UI Pck	Stg
0000593798 1	A L 11 003 002	1	1		EA	
VALVE, CHECK, SWING, 8", 1MV-559, ASME B16.34 CLAS						
S 150, BW, SS, ASME SA351, CF8M, SS						

(M)

VC

UTC Nbr: 0001821019
Trace 1: M SN#D5362
Trace 2:

Safety Class(QA Condition): 1

MAN. CRANK

Year Built →
NB # →

Serial Number # D5362

GAT
w/Link Grass
on Tuesday
RA
JANIE
9-22-15

Issued By : BARBEE SHERRI

Issue Date : 03/05/2015 Time: 08:58

Received By: HERMAN CARROLL

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 10/15/2015
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 2184871-41
 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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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-3415	Duke Energy	N/A	N/A	N/A	N/A	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Installed hanger 2MCA-RN-3415 per EC101081.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure _____ PSI Test Temp. _____
9. 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: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-RN-3415

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101081

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
Owner or Owner's Designee, Title

Date October 15, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period

7-6-15 to 10-15-15, 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
Inspector's Signature

Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-15, 2015

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 10/8/2015
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 2185059-25
 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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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-3417	Duke Energy	N/A	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Installed hanger 2MCA-RN-3417 per EC101081

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9F Description (Optional):

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-RN-3417

Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101081

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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 8-25-15 to 10-13-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-13, 2015

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
526 South Church Street, Charlotte, NC, 28201
Address

Date 10/7/2015
Sheet 1 of 2

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

Unit 2
2185059-28
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 2007 Edition with the 2008 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-3418	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
Additional Description Installed hanger 2MCA-RN-3418 per EC101081.

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

Sheet 2 of 2

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

Component Line Size: 6 in. (nominal) System Class: ASME Class 3

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

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

Support/Restraint Sketch/Drawing No(s):: 2MCA-RN-3418

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 October 7, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 4-7-15 to 10-13-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-13, 2015

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 10/10/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 2185059-51
 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 Address 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 2007 Edition with the 2008 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 System	Duke Energy	N/A	60	N/A	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Added piping per EC101081.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 88 PSI Test Temp. 57

9. 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

Sheet 2 of 2

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

Component Line Size: 6 in. (nominal) System Class: ASME Class 3
Weld Isometric Drawing No(s): MCFI-2RN207
Flow Diagram No(s): MCFD-1574-01.01
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: EC101081

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 10, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 8-25-15 to 10-14-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-14, 2015

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 10/20/2015
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 2187798-28
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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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 System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC107431.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 1.7 PSI Test Temp. 73.2
 °F Description (Optional): Test per formed 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: 6 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2RN211 & 213

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

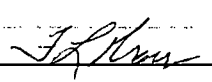
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist



Date October 20, 2015

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 HSB Global Standards of Connecticut

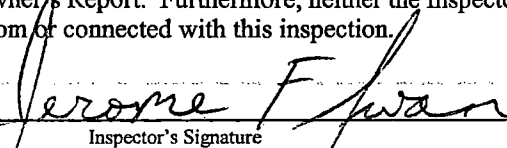
have inspected the components described in this Owner's Report during the period

6-3-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/13/2015
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 2189091-20
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 1971 Edition, Summer and Winter Addenda, N/A Code Case
(b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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 System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
Additional Description Replaced piping per EC101081.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 88 PSI Test Temp. 56
°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: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2RN3

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: EC101081

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 13, 2015

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period

9-14-15 to 10-13-15, 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

Inspector's Signature

Jerome F. Swan

Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements

Date 10-13, 2015

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 9/18/2015
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 2189481-47 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 VS - Station Air System - Station Air System (High Pressure)

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 2007 Edition with the 2008 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-VS-500-01C	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Other (Describe Below)
 Additional Description Coped hanger member and reinstalled end cap on hanger 2MCA-S-VS-500-01C per EC 101081.

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

Sheet 2 of 2

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

Component Line Size: 2 in. (nominal) System Class: ASME Class 2
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2605-02.02
Support/Restraint Sketch/Drawing No(s): 2MCA-S-VS-500-01C
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101081

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 19, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 4-7-15 to 9-19-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 9-19, 2015

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 10/7/2015
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 2189481-59
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5131	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Modified hanger 2MCA-CA-5131 per EC101081.

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: 8 in. (nominal) System Class: ASME Class 3
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2592-01.01
Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5131
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC101081

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 7, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 4-9-15 to 10-13-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-13, 2015

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 10/10/2015
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 2189481-64
 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 CA - Auxiliary Feedwater
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 2007 Edition with the 2008 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)
CA system	Duke Energy	N/A	73	N/A	1982	<u>Installed</u>	<u>Yes</u>
RN system	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>
2RN162	Crane	E2648	N/A	UTC# 2024483	2013	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Replaced piping and added valve 2RN162 per EC101081.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 88 PSI Test Temp. 57
9. 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

Sheet 2 of 2

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

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

Weld Isometric Drawing No(s): MCFI-2CA67 & 2RN208

Flow Diagram No(s): MCFD-2592-01.01 & 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: EC101081

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

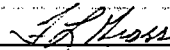
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist
Owner or Owner's Designee, Title



Date October 10, 2015

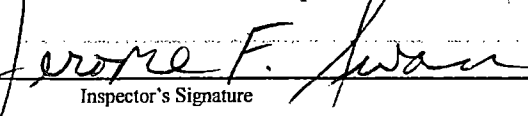
CERTIFICATE OF INSERVICE INSPECTION

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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-24-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-15, 2015

FORM NPV-1 (Back) — Pg. 2 of 2

Certificate Holder's Serial No. E2647 & E2648

- 8 Design conditions 135 psi 95F or valve pressure class _____
 (pressure) (temperature)
- 9 Cold working pressure 285
- 10 Hydrostatic test 450 Disk differential test pressure 315
11. Remarks: Bonnet Stud - 14 pcs./valve SA193 Gr. B7, Heat# DL1010389502 Trace# AFN
Bonnet Stud Nut - 28 pcs./valve SA194 Gr. 2H, Heat# C00989 Trace# AFO
By-Pass Valve S/N - 111024-20 & 111024-19
By-Pass Piping - SA106 Gr. B, Heat# 51158; Trace # 21752-2
By-Pass Elbow - SA105, Heat# 78801
Duke PO# 0016772 Rev. 001, PO Item# 0001, CNI SO# 42061-01

CERTIFICATION OF DESIGN

Design Specifications certified by James M. Lamb, Jr. P.E. State NC Reg. no. 6005
 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 9, 2014
 Date September 30, 2013 Name CRANE Nuclear, Inc. Signed C. O. H.
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and employed by HSB CT of Hartford, CT have inspected the pump, or valve, described in this Data Report on September 30, 2013 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 9/30/13 Signed Todd Ward Commissions NB11557 ABIN
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

2024482/3

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 10/20/2015
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 2189481-65
 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 CA - Auxiliary Feedwater & 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 2007 Edition with the 2008 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)
CA System	Duke Energy	N/A	73	N/A	1982	<u>Installed</u>	<u>Yes</u>
RN System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC101081.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 86 PSI Test Temp. 72
 °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

Sheet 2 of 2

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

Component Line Size: 6 & 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2CA7, 2CA28, 2CA67, & 2RN106

Flow Diagram No(s): MCFD-2574-03.00 & 2592.01.01

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: EC101081

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

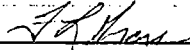
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 20, 2015

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 HSB Global Standards of

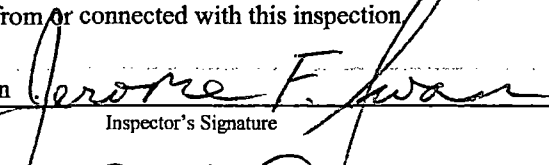
Connecticut have inspected the components described in this Owner's Report during the period

2-25-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/7/2015
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 2189481-75
 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 CA - Auxiliary Feedwater

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 2007 Edition with the 2008 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-CA-5204	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Revised hanger 2MCA-CA-5204 per EC101081.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.

9. Description (Optional):

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

As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

Component Line Size: 8 in. (nominal) System Class: ASME Class 3
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2592-01.01
Support/Restraint Sketch/Drawing No(s): 2MCA-CA-5204
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 7, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 4-9-15 to 10-13-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-13, 2015

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 10/14/2015
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 2190066-35
 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 CA - Auxiliary Feedwater
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 2007 Edition with the 2008 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)
2CA18	Walworth	C61682	761	N/A	2008	<u>Removed</u>	<u>Yes</u>
2CA18	Flowsolve	BF831	2314	UTC# 1925834	2008	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2CA18 per EC101081.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 60 PSI Test Temp. 68
 °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: 6 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2CA28

Flow Diagram No(s): MCFD-2592-01.01

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: EC101081

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

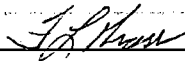
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 14, 2015

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 HSB Global Standards of Connecticut

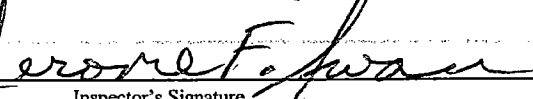
have inspected the components described in this Owner's Report during the period

5-11-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-15, 2015

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 150 FW Drawing 06-41497-01 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1998 ✓ 2000 ✓ 3 N/A
(edition) (addenda date) (class) (Code Case no.)

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

7. Material:
 (a) valve Body SA216WCB Bonnet SA216WCB Disk SA351CF8M Bolting SA193-B7
 (b) pump Casing _____ Cover _____ Bolting _____

<small>(a) Cert. Holder's Serial No.</small>	<small>(b) Nat'l Board No.</small>	<small>(c) Body/Casing Serial No.</small>	<small>(d) Bonnet/Cover Serial No.</small>	<small>(e) Disk Serial No.</small>
<u>BF832</u> ✓	<u>2313</u> ✓	<u>08109-AA235</u> ✓	<u>08109-AA237</u> ✓	<u>08116-AA238</u> ✓
<u>BF831</u> ✓	<u>2314</u> ✓	<u>08109-AA234</u> ✓	<u>08109-AA236</u> ✓	<u>08116-AA239</u> ✓

* Supplemental information in the 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.

1925 834

1925 835

4

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. BF831 THRU BF832

8. Design conditions 135 (pressure) psi 160 (temperature) °F or valve pressure class 150 ✓
9. Cold working pressure 285 psi at 100°F
10. Hydrostatic test 450 ✓ psi. Disk differential test pressure 315 ✓ psi
11. Remarks: 45 degree Elbow, SA105, Ht. Code 77347; 90 degree Elbow, SA105, Ht. Code 77582;
Stud, SA193-B7, Ht. Code 643; Nut, SA194-2H, Ht. Code 7220464
Pipe, SA106-Gr. B, Ht. Code 274102-1,3,5,7,9 (BF831)
Pipe, SA106-Gr. B, Ht. Code 274102-2,6,12,8 (BF832)
BYPASS VALVE 06BMK ON BF831, 05BMK ON BF832 ✓
SO 48633, ITEM 1, 6" FLEX WEDGE GATE VALVE

CERTIFICATION OF DESIGN

Design Specification certified by J.M. LAMB P.E. State NC Reg. no. 6005
 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-1562 ✓ Expires 11-26-09 ✓
 Date 12/16/08 Name Flowserve Corporation Signed [Signature] ✓
(N Certificate Holder) (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 12/16/08, 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 12/16/08 Signed [Signature] ✓ Commissions NB13170ANI NL1519
(Authorized Nuclear Inspector) (Nat'l. Bd. (Incl. endorsements) and state or prov. and no.)

[Handwritten signature]
 JAN II
 10-15-15

1925 834

1925 835

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 10/14/2015
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 2190067-32
 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 CA - Auxiliary Feedwater
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 2007 Edition with the 2008 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)
2CA116	Walworth	C612616	677	N/A	1976	<u>Removed</u>	<u>Yes</u>
2CA116	Crane	E3354	N/A	UTC# 2033791	2014	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2CA116 per EC101081.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 60 PSI Test Temp. 68 °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: 8 in. (nominal) System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2CA7

Flow Diagram No(s): MCFD-2592-01.01

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: EC101081

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
Owner or Owner's Designee, Title



Date October 14, 2015

CERTIFICATE OF INSERVICE INSPECTION

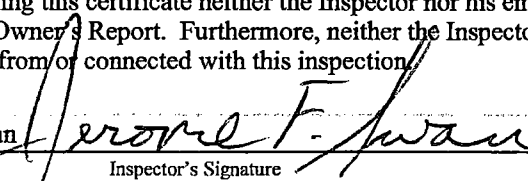
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period 5-5-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-15, 2015

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

Certificate Holder's Serial No. E3354

- 8 Design conditions 135 psi 95 F or valve pressure class ---
 (pressure) (temperature)
9. Cold working pressure 285
10. Hydrostatic test 450 Disk differential test pressure 315
11. Remarks: Bonnet Stud - 14 pcs, SA193 Gr. B7, Heat# 10228850
Bonnet Stud Nut - 28 pcs, SA194 Gr. 2H, Heat# C00989
By-Pass Valve S/N: 121018-5
By-Pass Pipe - SA106 Gr. B, Heat# 511568, Trace# 21752-2
By-Pass Elbow - SA105, Heat# 78801
Duke PO# 0016772 PO Item# 0003 CNI SO# 42061-02

CERTIFICATION OF DESIGN

Design Specifications certified by James M. Lamb, Jr. P.E. State NC Reg. no. 6005
 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 9, 2014

Date 03/31/14 Name CRANE Nuclear, Inc. Signed Jennifer Bregovy
 (N Certificate Holder) (authorized representative Jennifer Bregovy - QA Engineer)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and employed by HSB Global Standards of Hartford, CT have inspected the pump, or valve, described in this Data Report on 03/31/14 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 03/31/14 Signed Michael Hayden Commissions NB 10989 ANIC
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

1073008

2033791

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 10/20/2015
 Sheet 1 of 2

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

Unit 2
2190612-12
 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 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 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Installed orifice per EC112794.

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): N/A

Flow Diagram No(s): MCFD-2554-01.01

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: EC112794

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

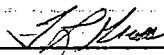
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist
Owner or Owner's Designee, Title



Date October 20, 2015

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 HSB Global Standards of Connecticut

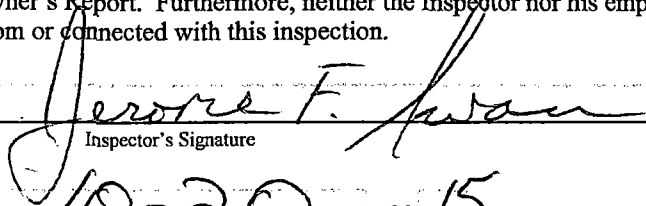
have inspected the components described in this Owner's Report during the period

9-28-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-20, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 10/15/2015
 Sheet 1 of 2

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

Unit 2
2190620-12
 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 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 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Installed orifice and it's bolting material per EC112794.

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

Sheet 2 of 2

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

Component Line Size: 2 in. (nominal)

System Class: ASME Class 2

Weld Isometric Drawing No(s): N/A

Flow Diagram No(s): MCFD-2554-01.01

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: EC112794

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 15, 2015

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 HSB Global Standards of

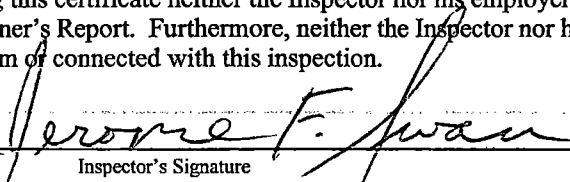
Connecticut have inspected the components described in this Owner's Report during the period

9-28-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-15, 2015

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 10/15/2015
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 2190621-12
 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 NV - Chemical and Volume Control
5. (a) Applicable Construction Code ASME III Edition, 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Installed orifice and it's bolting material per EC112794.
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): N/A

Flow Diagram No(s): MCFD-2554-01.01

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: EC112794

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

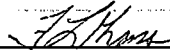
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 15, 2015

Owner or Owner's Designee, Title

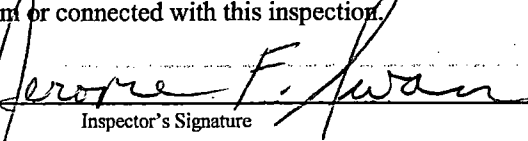
CERTIFICATE OF INSERVICE INSPECTION

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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period 9-28-15 to 10-15-15, 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



Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-15, 2015

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
526 South Church Street, Charlotte, NC, 28201
 Address

Date 10/15/2015
 Sheet 1 of 2

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

Unit 2
2192371-08
 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 2007 Edition with the 2008 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)
2RN1149	Crane	D4233	N/A	UTC# 1934781	2005	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added valve 2RN1149 and it's bolting material per EC107090.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 9 PSI Test Temp. 75

9F 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: 6 in. (nominal)

System Class: ASME Class 3

Weld Isometric Drawing No(s): MCFI-2RN139

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: EC107090

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

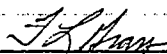
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 15, 2015

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 HSB Global Standards

of

Connecticut

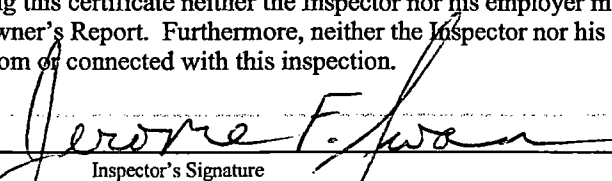
have inspected the components described in this Owner's Report during the period

9-27-15 to 10-15-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-15, 2015

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

Certificate Holder's Serial No. ✓ D4233 through D4244

8 Design conditions ✓ 135 psi ✓ 150 °F or valve pressure class _____ (1)
(pressure) (temperature)

9 Cold working pressure ✓ 275 psi at 100°F

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

11. Remarks:

✓ PO No. DP13534, PO Item 0010, Duke Item No. 05B-825
CNI SO No. 26276-01

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, 2005
 Date 08/30/05 Name CRANE Nuclear, Inc. Signed *Jerome A. Kurtz*
(N Certificate Holder) (N Certificate Holder) Sr. QA Engineer

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 August 30, 2005 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 08/30/05 Signed *Todd Ward* Commissions IL 1903
(Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)
 Todd Ward

(1) For manually operated valves only.

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 10/10/2015
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 2193113-08
 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 1971 Edition, Summer and Winter Addenda, N/A Code Case
 (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 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 System	Duke Energy	N/A	60	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC107431
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 1.7 PSI Test Temp. 62.6
 °F Description (Optional): Test performed per procedure MP/Q/A/7650/076.

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

As Required by the Provisions of the ASME Code Section XI

Sheet 2 of 2

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

Component Line Size: 6 in. (nominal) System Class: ASME Class 3
 Weld Isometric Drawing No(s): MCFI-2RN213
 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: EC107431

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 [Signature] Date October 10, 2015
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 HSB Global Standards of Connecticut

have inspected the components described in this Owner's Report during the period 8-11-15 to 10-15-15, 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 [Signature] Commissions NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-15, 2015

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 10/20/2015
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 2197098-13
 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 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 2007 Edition with the 2008 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 System	Duke Energy	N/A	83	N/A	1982	<u>Installed</u>	<u>Yes</u>

7. Description of Work Add New Component/Part/Appurtenance/Weld
 Additional Description Added piping per EC110201.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure 1500 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: 2 in. (nominal) System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2NI7

Flow Diagram No(s): NCFD-2562-03.01

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: EC110201

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

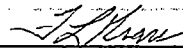
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass, Quality Assurance Technical Specialist
Owner or Owner's Designee, Title



Date October 20, 2015

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 HSB Global Standards of Connecticut

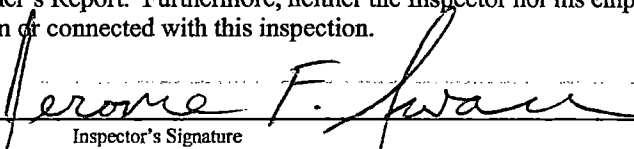
have inspected the components described in this Owner's Report during the period

3-9-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1
National Board, State, Province, and Endorsements

Date 10-20, 2015

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 10/8/2015
526 South Church Street, Charlotte, NC, 28201 Address Sheet 1 of 2

2. Plant McGuire Nuclear Station Unit 2
 Name
12700 Hagers Ferry Road, Huntersville, NC 28078 Address 20002829-98
 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 Address 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 2007 Edition with the 2008 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)
NV System	Duke Energy	N/A	80	N/A	1982	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced bolting material in rupture restraint on cold leg of 2A.

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 2
Weld Isometric Drawing No(s): N/A
Flow Diagram No(s): MCFD-2554-01.02
Support/Restraint Sketch/Drawing No(s): MC-1690-418-001
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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-18-15 to 10-12-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-12, 2015

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 10/8/2015
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 20014137-25
 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 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 2007 Edition with the 2008 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-KC-512-1-I	Duke Power	N/A	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Installed hanger 2-MCA-S-KC-512-1-I per EC109070.

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

Sheet 2 of 2

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

Component Line Size: 2 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): 2-MCA-S-KC-512-1-I
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC109070

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 8, 2015
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 HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period 9-27-15 to 10-8-15, 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 NB11473-NC1524, N-1
Inspector's Signature National Board, State, Province, and Endorsements
Date 10-8, 2015

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 10/8/2015
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 20019382-01
 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 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 2007 Edition with the 2008 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-NV-523-01T	Duke Energy	3169	N/A	N/A	N/A	Removed	Yes
2MCA-S-NV-523-01T	Duke Energy	31200602-1	N/A	N/A	N/A	Installed	Yes

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced snubber on hanger 2MCA-S-NV-523-01T.

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 2

Weld Isometric Drawing No(s): N/A

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

Support/Restraint Sketch/Drawing No(s): 2MCA-S-NV-523-01T

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 8, 2015

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 HSB Global Standards

of

Connecticut

have inspected the components described in this Owner's Report during the period

9-22-15 to 10-12-15 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

Inspector's Signature

Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-12, 2015

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 10/19/2015
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 20021703-10
 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 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 2007 Edition with the 2008 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)
2NI482	Borg Warner	53938	1877	N/A	1979	<u>Removed</u>	<u>Yes</u>
2NI482	Borg Warner	72086	N/A	UTC# 30031959	1981	<u>Installed</u>	<u>Yes</u>

7. Description of Work Replaced Component/Part/Appurtenance
 Additional Description Replaced valve 2NI482 per EC401256.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure _____ PSI Test Temp. _____
 °F Description (Optional): ref AR# 01962558.

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: 1 1/5 in. (nominal)

System Class: ASME Class 2

Weld Isometric Drawing No(s): MCFI-2NI51

Flow Diagram No(s): MCFD-2562-01.00

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: EC401256

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

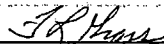
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

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 19, 2015

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 HSB Global Standards

of

Connecticut

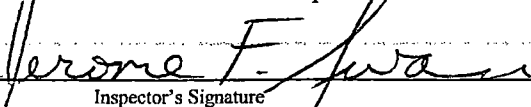
have inspected the components described in this Owner's Report during the period

9-28-15 to 10-20-15, 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

Inspector's Signature



Commissions NB11473-NC1524, N-1

National Board, State, Province, and Endorsements

Date 10-20, 2015

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

1. Manufacturer: by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)

2. Manufactured for Commonwealth Edison Co., P.O. Box 87, Chicago, Ill 06090
(Name and Address of Purchaser or Owner)

3. Location of Installation Braidwood Station, Braidwood, Illinois
(Name and Address)

4. Pump or Valve Y Globe Valve Nominal Inlet Size 1 1/2 Outlet Size 1 1/2
(inch) (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Mat'l Sd. No.	(g) Year Built
(1) 1500P	72080 thru 72089	N/A	106ECB1-002	2	N/A	1981
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. The valves are designed to handle a fluid media which includes steam, water condensate, heated water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 psi 100 °F or Valve Pressure Class N/A (1)
(Pressure) (Temperature)

7. Cold Working Pressure 3600 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Disc-Code <u>4Q24</u> <u>4L14</u>	<u>Colmonoy #A</u>	<u>Rex Precision</u>	
(b) Forgings			
Body-Code <u>2F76</u>	<u>SA182 316</u>	<u>Coopson Forge</u>	
Bonnet-Code <u>2CB3</u>	<u>SA182 316</u>	<u>Crucible/Jorgensen</u>	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in forms 1, 2 and 8 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.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 67th St., New York, N.Y. 10017

RA
EX
ADT
10-20-15

30031958/9/60/1

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) <u>Waiting</u>	<u>N/A</u>		
(d) <u>Other Parts</u>	<u>N/A</u>		

9. Hydrostatic test 3400 psi. Dist Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.
 Addenda WBARF 73, Code Case No. N/A, Date July 24, 1981
 Signed Nuclear Valve Div., Borg Warner [Signature]
(In Certificate Holder's Presence)
 Our ASME Certificate of Authorization No. N-1254 to use this N symbol expires 10/27/81.
(Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409
 Stress analysis report (Class 1 only) on file at N/A
 Design specifications certified by (1) George F. Kovacs
 PE State Ill, Reg. No. 28848
 Stress analysis certified by (1) N/A
 PE State N/A, Reg. No. N/A
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Liberman's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 7/30, 19 81, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 7/30, 19 81 Commissions 1275 CA.
(Inspector) (NBP Bd., State, Prov. and Mex)

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6.0 Pressure Testing

First Period – Fourth 10 Year Interval

This section contains a pressure test completion status for the examinations completed during refueling outage 2EOC23, the first outage in the first period of the fourth ten-year inspection interval. There was no through-wall leakage observed during any of these pressure tests.

Table 6-1 shows a completion status of pressure test zones conducted during the first period of the fourth ten-year inspection interval.

Examination Category	Test Requirement	Total Examinations Required For This Period	Total Examinations Credited For This Period	Total Examinations Remaining
B-P	System Leakage Test (IWB-5220)	2	1	1
C-H	System Leakage Test (IWC-5220)	44	8	36

There is one Class 1 (Examination Category B-P) pressure test zone that requires pressure testing each refueling outage. Table 6-2 shows a completion status of the Class 1 (Examination Category B-P) Pressure Test Zone conducted during the 2EOC23 Refueling Outage.

Zone Number	Boundary Dwg	EOC23 Completion Status	EOC23 VT-2 Examination Date	Code Cases Used
2NC-001L-A	MC-ISIL4-2553-01.00 MC-ISIL4-2553-02.00 MC-ISIL4-2553-02.01 MC-ISIL4-2554-01.00 MC-ISIL4-2554-01.01 MC-ISIL4-2554-01.02 MC-ISIL4-2561-01.00 MC-ISIL4-2562-01.00 MC-ISIL4-2562-02.00 MC-ISIL4-2562-02.01 MC-ISIL4-2562-03.00 MC-ISIL4-2562-03.01	Complete	10/08/2015	None

There are 44 Class 2 (Examination Category C-H) pressure test zones that require pressure testing once each Inspection Period. Table 6-3 shows a completion status of the 8 Class 2 (Examination Category C-H) pressure tests zones that were completed during the 2EOC23 Refueling Outage.

Table 6-3 Detailed Class 2 First Period Listing Of Completed Tests					
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Cases Used
1	2BB-074L-B	MC-ISIL4-2572-03.00 MC-ISIL4-2580-01.00 MC-ISIL4-2584-01.00	Complete	10/08/2015	None
2	2CA-040L-B	MC-ISIL4-2592-01.00 MC-ISIL4-2584-01.00	Complete	10/08/2015	None
3	2FW-001L-B	MC-ISIL4-2571-01.00	Complete	09/17/2015	None
4	2KC-001L-B	MC-ISIL4-2573-03.01	Complete	09/30/2015	None
5	2ND-009L-B	MC-ISIL4-2554-01.02 MC-ISIL4-2561-01.00 MC-ISIL4-2562-03.00 MC-ISIL4-2562-03.01 MC-ISIL4-2563-01.00 MC-ISIL4-2571-01.00 MC-ISIL4-2572-01.00	Complete	09/12/2015	None
6	2NI-014L-B	MC-ISIL4-2562-02.01 MC-ISIL4-2562-03.00	Complete	09/30/2015	None
7	2NV-003L-B	MC-ISIL4-2554-01.00 MC-ISIL4-2554-01.01 MC-ISIL4-2554-01.02 MC-ISIL4-2554-01.03	Complete	10/08/2015	None
8	2SM-040L-B	MC-ISIL4-2591-01.01 MC-ISIL4-2593-01.00 MC-ISIL4-2593-01.03	Complete	10/08/2015	None