

Steven D. Capps
Vice President
McGuire Nuclear Station

Duke Energy

MG01VP | 12700 Hagers Ferry Road Huntersville, NC 28078

> o: 980.875.4805 f: 980.875.4809 Steven.Capps@duke-energy.com

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,

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: <u>Duk</u>			, 526 S. Chur and Address			C 28201	-1006		
	Plant: McGuire Nuclear Station, 12700 Hagers Ferry Road Huntersville, N.C. 28078- (Name and Address of Plant)										
	3.	Plant Unit:	<u>2</u> 4	. Own	er Certificate	of Au	thorization (if	required) <u>N/A</u>		
	5.	Commercia	l Service Da	ite: <u>Mar</u>	ch 1, 1984	6. Na	tional Board I	Number f	for Unit 8 <u>4</u>		
	7.	Component	s Inspected	:							
		omponent or opurtenance	Manu factur Installe		Manufacturer Installer Seria No.		State or Province No.		lational pard No.		
			S		on 1.1 in the At	tached	Report				
	_										
	_							-			
	_							-			
	_										
	_							<u> </u>			

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is $8^{1/2}$ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Total number of pages contained in this report: 351

FORM NIS-1 (Back)

(800) 417-3721

	•					
8.	Examination Dates	April 24, 20	14	to Octo	ober 09, 2015	
9.	Inspection Period Identific	ation:	First Period			
10.	Inspection Interval Identific	cation:	Fourth Interval			
11.	Applicable Edition of Section	on XI	2007	Addend	a <u>2008</u>	
12.	Date/Revision of Inspection	n Plan:	May 28, 2015 /	Revision 1		
13.	Abstract of Examinations a concerning status of work				and tests and a state ections 2.0, 3.0, and	
14.	Abstract of Results of Exa	minations and	l Tests.	See Se	ection 4.0, and 6.0	
15.	Abstract of Corrective Mea	ısures. <u>S</u>	See Section 4.3			
Insp	certify that a) the statements ection Plan as required by t ules of the ASME Code, Se	he ASME Cod				
Cert	ificate of Authorization No. (if applicable)	_N/A_		Expiration Date	N/A
Date	AUGHRY 6 20 16	Signed <u>Du</u>	<u>ke Energy Caroli</u> Owner	<u>nas</u> By	ulall 7	
CER	TIFICATE OF INSERVICE	INSPECTION			<u></u>	
Inspinspo inspo Octo exar with By s impli Furth		vince of North ribed in this O at to the best of the corrective required by the the Inspector ations, test, and wind arising Commissions	Carolina employed whers' Report due of my knowledge measures describe ASME Code, Sor nor his employed corrective mea ployer shall be lie	ed by <u>HSB</u> aring the pering the pering the Control of the Control	Global Standards had riod April 24, 2014 to the Owner has performers' Report in according warranty, express ribed in this Owners manner for any personspection N,I,NS	ave ormed cordance ed or ' Report.
/	, , , , , , ,					
Dat	e <u>/-6-20</u> /	Ø	-			
200 Suite	Global Standards Ashford Center North e 205 hta, GA. 30338-4860					

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:	(lane) & Cherry D.	_ Date	01/06/2014
Reviewed By:	Hoaved Dirl	_ Date	01/06/2016
Approved By:	Mendet	_ Date	01/06/2016

DISTRIBUTION LIST

- Duke Energy Carolinas
 Nuclear Engineering
 ASME Section XI Services
- 2. McGuire Nuclear Station Inspection Services (ISI Coordinator)
- 3. NRC Document Control Desk
- 4. HSBCT (AIA) c/o ANII at McGuire
- 5. State of North Carolina Department of Labor c/o J. M. Givens, Jr.
- 6. McGuire Nuclear Station Site ISI Program Manager

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	Revision
1.0	General Information	0
2.0	Fourth Ten-Year Interval Inspection Status	0
3.0	Final Inservice Inspection Plan	0
4.0	Results of Inspections Performed	0
5.0	Owner's Report for Repair / Replacement Activities	0
6.0	Pressure Testing	0

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 <u>Identification Numbers</u>

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 <u>Identification Numbers</u> (Continued)

ltem	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 <u>Identification Numbers</u> (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.	КС	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

Examination Category	Description	Total Population	Inspections Required	Inspections Completed	Percentage Completed	¹ DeferralAll owed			
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

Examination Category	Description	Total Population	Inspections Required	Inspections Completed	Percentage Completed	¹ Deferral Allowed
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

Examination Category	Description	Total Population	Inspections Required	Inspections Completed	Percentage Completed	¹ Deferral Allowed
В-О	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 Referen	ce General R	equirements	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

Examination Category	Description	Total Population	Inspections Required	Inspections Completed	Percentage Completed
C-A	Pressure Retaining Welds in Pressure Vessels	17	9	1.67	18.56%
С-В	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	ropulation	ricquired	Completed	Completed
C-F-2	Reference Risk- Informed Program Examination Category R-A, R1. Items				
С-Н	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

Examination	Description	Total	Inspections	Inspections	Percentage
Category		Population	Required	Completed	Completed
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.

Summary Number	Description	Percentage Complete
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 Diaphram 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

ScheduleWorks

<u>Plan Report</u>

McGuire 2, 4th Interval (EOC-23)

This report includes all changes through addendum 4MNS2-004

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

Inconel Transition Weld to Stainless Steel Tube

MP\0\A\7150-165

Note 4th Interval: CC N-722-1requires 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 requiements of Code Case N-722 (Item B15.80). The bare metal visual inspection shall include an inspection of the bottom head and Alloy 600 transition weld between the Alloy 600 tube and the stainless steel tube. This exam added per QA-513J ER-MNS-09-01. This exam should be scheduled every other outage begining with EOC-19. Reference Footnote 4 of Code Case N-722 for type of examination. Any questions concerning this exam should be directed to the Materials and NDE Services Group (Chris Cruz or Jody Suping).

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.

McGuire 2, 4th Interval (EOC-23)

Summary Num

Component ID Class / System

ISO/DWG Numbers

MCM 2201.01-0021 001

Procedure Description Comments

Material

Sched

Thick/NPS

Cal Blocks

Componenet ID 2

Category AUG

M2.B4.10.0001

2RPV-Head

Class 1 NC MC-ISIN4-2553-01.00 NDE-70

RV Closure Head

This note added to begin 4th Interval:

Insp Rea

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.

Summary Num	Component II Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG		· · · · · · · · · · · · · · · · · · ·							
M2.G1.1.0001	2RCP-2A Class 1 NC	MCM 1201.01-7	54-ISI-117	UT	cs		NA / NA	TBD	G01.001.001,
		MC-ISIN4-2553-01.00 MCM 1201.01-0080							G01.001.001A
			AMENDMENT REACTOR CO NOT EXCEED 2A WILL BE D 1/1/1996 (ON DONE 2E OC- MOVED ARO EXCEPT 2EC THE ISI PLAN SHOULD BE RECALCULA	OOLANT PUT NO. 205 TO COLANT PUT OF SOURCE SOUR SOUR SOUR SOUR SOUR SOUR SOUR SOUR	D RENEW FAMP FLYWHE PER NOTE -24, LAST UT 2RCP-2C WI FEXAM 6/10, XAMINATION NTERVAL) W N. NOTE: A BEFORE RE	CILITY OPE EL INSPECT FROM STET FEXAM 3/28 LL BE DONE (1998 (ON 1E N DATE MAY VILL BE PAR INY REACTO MOVAL, PSI (EAR EXAMI	RATING LICEN FION PROGRAM VE ROSENAU [71999 (ON 2A P 2 2EOC-24, LAS 3 PUMP) IT SHI Y NOT APPLY TO T OF THE FOUL OR COOLANT P DONE ON THE NATION DATE.	SE NPF-17. THIS AMEN M TO INCREASE THE IN: DATED 10/29/2004 THE S UMP), 2RCP-2B WILL BE T UT EXAM 9/23/1999 (C OULD BE NOTED THAT D THE CURRENT PUMP RTH INTERVAL AND TH. UMP REMOVED FROM S	C LETTER DATED AUGUST 5, 2004 IDMENT REVISES TS 5.5.7 SPECTION INTERVAL FROM 10 TO SCHEDULE IS AS FOLLOWS: 2RCP- E DONE 2EOC-22, LAST UT EXAM DN 1C PUMP), 2RCP-2D WILL BE THE FLYWHEELS HAVE BEEN LOCATION. THESE OUTAGES EY MUST BE INCLUDED WHEN SERVICE BEFORE THIS TIME HE SCHEDULE WILL BE
M2.G13,1,0001	Cold Leg 2D N	lozzle 4-1				· · · · · · · · · · · · · · · · · · ·			Risk Segment NC-027
	Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-045 2NCP 82	NDE-995	UT	SS	160	0.281 / 1.500	50202	
circumferential									
			Nozzle to Pipe	9					
			requirements details of the a The area to be examination to bottom of the	of EPRI MRA areas to be e e examined is o be performa 1-1/2" Boron 1/2EOC21 for	2-146, Revision 2-146, Revision 2-146. Per street the 1-1/2" Error and will cover a linguistry the life of the	on 1. Refere rform a volun Boron Injectio an approxima e for a length e plant. For a	nce QA Tracking netric (UT) exam n Line from the l ately 1" wide bar of 6.75" toward	g Number ER-MNS-12-02 ination of the base metal RCS Cold Leg 2D Nozzle nd out from the toe of butt Valve 2Nl0021. This exa	esign/DB Group to meet the 2 (QA-513J with Attachment A) for to detect thermal fatigue cracking. 4-1 toward Valve 2NI0021. The UT Weld No. NC2FW45-5 and along the am is to be performed every outage by of the McGuire Civil Design/DB

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 AUG									
M2.G13.1.0002	Crossover Leg 2A	Nozzle 1-6							Risk Segment NC-020
	0.000 1 110	IC-ISIN4-2553-01.00 ICFI-2NC-047	NDE-995	UT	SS	160	0.344 / 2.000	8279-0410	
Circuferential									
			Elbow to Pipe						
			requirements details of the a The area to be examination to performed ever	of EPRI MRF areas to be e e examined is be performe ery other outa	2-146, Revision xamined. Per sithe 2" RCS led and will cover a sige starting w	on 1. Refero form a volum Drain Line for length app ith M2EOC	ence QA Tracking metric (UT) exami rom the RCS Cro proximiately 1" fro	Number ER-MNS-12-03 nation of the base metal ssover Leg 2A Nozzle 1- n the toe of fillet Weld No e plant. For additional in	esign/DB Group to meet the (QA-513J with Attachment A) for to detect thermal fatigue cracking. 6 toward Valve 2NC0004. The UT b. NC2FW47-14. This exam is to be afternation contact Greg Shipley of the
M2.G13.1.0003	M	zle 4-5 IC-ISIN4-2553-01.00 ICFI-2NC-026 NCP 32/ 2NCP 28	NDE-995	UT	SS	160	0.438 / 3.000	50225	
Circumferental									·

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.

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
M2.G13.1.0004	Cold Leg 2A No Class 1 NC	ozzle 1-3 MC-ISIN4-2553-01.00 MCFI-2NC-026 2NCP 30	NDE-995	UT	SS	160	0.438 / 3.000	50225	
			Elbow to Pipe						
			requirements details of the caracking. The examination to beginning at Vand the elbow	of EPRI MRR areas to be e area to be e o be performe Veld No. NC. base metal of starting with	j-146, Revision xamined Per examined is the examined is the examined is the examined is the examined and the examined in line in lin	on 1. Refere rform a volu- ne 3" Chargii outt Weld No running a to e with the bo r the life of th	ence QA Tracking metric (UT) examing Line from the los. NC2FW26-10 otal length of 13.5 ottom of horizontane plant. For add	Number ER-MNS-1 ination of the base n RCS Cold Leg 2A No and NC2FW26-3, th " toward Valve 2NV0 I pipe to Weld No. N	vil Design/DB Group to meet the 2-05 (QA-513J with Attachment A) for netal and welds to detect thermal fatigue ozzle 1-3 toward Valve 2NV0015. The UT e base metal at the bottom of the pipe 1015 (Reference Subassembly 2NCP-30), C2FW26-3. This exam is to be performed ontact Greg Shipley of the McGuire Civil
M2.G3.1.0004	2NC2FW16-1						-		
	Class 1 NC	MCFI-2NC16	NDE-35	PT	SS		1.000 / 10.000		G03.001.001, G03.001.001A
		MC-ISIN4-2553-01.00							
Circumferential									
			Elbow to Noz	zle					
			Pipe Rupture	Protection. R	leference Doo	cument SRG	6-78-001 REV.2 (I	DISTRIBUTION COL	DE MADM-257).
M2.G3.1.0004	2NC2FW16-1 Class 1 NC	MCFI-2NC16	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-M	G03.001.001, G03.001.001A
		MC-ISIN4-2553-01.00							G05.00 1.00 IA
0, ,								PDI-UT-2-M1	
Circumferential									
			Elbow to Noz		leference Doo	cument SRG	6-78-001 REV.2 (I	DISTRIBUTION COL	DE MADM-257).

Summary Num	Component II Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
M2.G6.2.0001	2PZR-Manway Class 1 NC	/ MCM 1201.01-140	NDE-68	VT-2					
			Pressurizer M	anway					
			Pressurizer M Individual, cor	anway Cove ntact J.M. Sh	r and Manway uping, Alloy 6	y for evidenc i00 Engineer	e of diaphram pla Nuclear Technic	ite seal weld leakage al Services). ER-MN	pector. Examine the gap between the e. Examine every outage. (For responsible NS-07-02 used to install in plan. ed dated July 27, 2004.
M2.G9.1.0001	2ND17-TEE					=			
W2.00.1.0001	Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND17	NDE-998	UT	SS		0.250 / 8.000	50309	
			NDE Procedu (Iso MCFI 2NI Legs). Up to to to be inspecte Ensure associ For additional	re NDE-998. D-17) Inspect three (3) comed must be at iated inspect information of	et from the first aponents will I least 32 inch ion WO's incli contact site T	st Tee toward be inspected es. Examina ude resource hermal Fatig	I the first elbow d They are the To ation schedule to	ownstream of Valve ee and spool piece a begin EOC-23 then o sks for material repla	ermal fatigue cracking per MRP-192 using 2ND29 (toward NC Loop 1 and 2 Cold and possibly the elbow. The total distance every six (6) years. acement. Ref PIP M-14-9793.
M2.G9.1.0002	2ND11-TEE Class B ND	MC-ISIN4-2561-01.00 MCFI-2ND11	NDE-998	UT	SS		0.250 / 8.000	50309	_
			NDE Procedu (Iso MCFI 2NI and including components v Examination s Ensure associ	re NDE-998. D-11) Inspect the attached will be inspect chedule to b iated inspect information of	t from the first 45 degree ell ted. They are egin EOC-23 ion WO's inclicontact site T	t Tee downst bow and as r the Tee, elb then every s ude resource hermal Fatig	ream of Valve 2N much of the straig ow and spool pip iix (6) years.	ND14 (Branch side of ght pipe to make a to e. sks for material repla	ermal fatigue cracking per MRP-192 using f Tee toward NC Loop 3 & 4 Cold Legs) to tal distance of 32 inches. Three (3) accement. Ref PIP M-14-9793.

Summary Num Category AUG	Component II Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2	
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		
			Perform volun NDE Procedu		on Unit 2 ND n	nixing Tees	(both trains) to id	entify evidence of thermal	fatigue cracking per MRP-192 using	
			Examination s	hall include t	he following:					
			1. (Iso MCFI 2 of 32 inches fr				am of Valve 2ND3	34 and the piping exiting th	ne Tee on the run side for a distance	
			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 s Manager.	chedule to b	egin EOC-23	then every s	ix (6) years. Fo	r additional information co	ntact site Thermal Fatigue Program	
			Ref. AD-EG-A	LL-1704, Att	achment 1 Fo	rm (ER-MN	S-08-01, Rev. 2)			
	······································									
M2.G9.1.0005	2ND3-2ND4B- Class B ND	Valve MC-ISIN4-2561-01.00 MCFI-2ND3	NDE-998	UT	SS		0.250 / 14.000	50218		
		-	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)							

Summary Num	Component ID Class / System	ISO/DWG Numb	ers	Procedure Description Comments	Insp Red	ı Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
Category AUG											
M2.G9.1.0006	2ND3-2ND19A-	Valve									
		MC-ISIN4-2561-01. MCFI-2ND3	00	NDE-998	UT	SS		0.250 / 14.000	50218		
				NDE Procedu (Iso MCFI 2N Inspect the 14 Examination s Ensure assoc For additional	re NDE-99 D3) Inspect inch pipin schedule to iated inspecting	8. t the 14" piping g from the cent begin EOC-23 ection WO's inc n contact site T	downstrean er of the 3 in then every lude resourc hermal Fatig	n of Valve 2ND19, nch branch line for six (6) years.	A where the 3" recirci a distance of 2 feet on the sky	ulation piping downstream	
						—— End of F	Report ——				
	STATIS	TICS ONLY	Class 1	10 Clas	ss 2 0	Class 3 0	Tot	al by Class 10	Systems	15	Total Count 15

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	Componenet ID 2
Category B-D									
M2.B3.140.0001	N	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 Hea		INLET NOZZ	LE TO LOW	ER HEAD. Y1-X	2 QUADRANT. (II	NSIDE RADIUS SECTION).
M2.B3.140.0002	2SGA-OUTLET			: <u>-</u>		*	· · · · · · · · · · · · · · · · · · ·		<u> </u>
	Class 1 NC M	MCM 2201.01-0216 MCM 2201.01-0207 MCM 2201.01-0052.001	NDE-680	UT	cs		6.500 / NA	50235	B03.140.002
Circumferential									
			Nozzle To Hea		OUTLET NOZ	ZLE TO LO	WER HEAD. Y2	-X2 QUADRANT.	(INSIDE RADIUS SECTION).

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material Sch	ned Thick/NPS Cal Blocks	Componenet ID 2
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 H REACTOR V		SURE 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 H REACTOR VE		SURE HEAD NUT.		
M2.B6.10.0038	2RPV-664-32-03					
<u></u>	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS	7.000 / NA	B06.010.003
		RV Closure H		SURE HEAD NUT.		

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category 8-G-1 M2.B6.10.0039	2DDV 664 22 04							
M2.66.10.0039	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 He	ad Nut					
		REACTOR VE	SSEL CLOS	URE HEAD N	JT.			
			•					
M2.B6.10.0040	2RPV-664-32-05							
WE.50. 10.0040	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	NDE-62	VT-1	CS		7.000 / NA		B06.010.005
		RV Closure He	ad Nut					
		REACTOR VE	SSEL CLOS	URE HEAD N	JT.			
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 He	ad Nut					
		REACTOR VE	SSEL CLOS	URE HEAD N	JT.			

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure ins Description Comments	p Req Material	Sched Thick/NPS	Cal Blocks Componenet ID 2
	000000000000000000000000000000000000000				
M2.B6.10.0042	2RPV-664-32-07 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	NDE-62 V	T-1 CS	7.000 / NA	B06.010.007
		RV Closure Head I	Nut		
		REACTOR VESSE	EL CLOSURE HEAD N	UT.	
M2.B6.10.0043	2RPV-664-32-08 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	NDE-62 V	T-1 CS	7.000 / NA	B06.010.008
		RV Closure Head I	Nut		
			EL CLOSURE HEAD N	JT.	
M2.B6.10.0044	2RPV-664-32-09 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	NDE-62 V	T-1 CS	7.000 / NA	B06.010.009
		RV Closure Head I	Nut EL CLOSURE HEAD N	UT.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 He		SURE 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 He	-	SURE 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	UΤ	cs		7.000 / NA	50501	
		RV Closure He		SURE HEAD	STUD. Stud	Length = 64.560) inches.	

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

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Insp Description Comments	o Req Material	Sched Thick/NPS	Cal Blocks	Componenet ID 2
M2.B6.20.0007	2RPV-664-31-07 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5 L	JT ĆS	7.000 / NA	50501	
		RV Closure Head S REACTOR VESSE		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 L	JT CS	7.000 / NA	50501	
		RV Closure Head S REACTOR VESSE		STUD. Stud Length = 64.560	inches.	
M2.B6.20.0009	2RPV-664-31-09	DDILLE	T 00	7,000/110	F0504	
	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	RV Closure Head S		7.000 / NA STUD. Stud Length = 64.560	50501) inches.	

This report includes all changes through addendum 4MNS2-004 McGuire 2, 4th Interval (EOC-23)

Summary Num Calegory B-G-1	Component II Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2	
M2.B6.20.0010	2DDV 664 24	40					<u> </u>			
W2.86.20.0010	2RPV-664-31- Class 1 NC	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	cs		7.000 / NA	50501		
			RV Closure H	ead Stud						
			REACTOR VE	ESSEL CLOS	URE HEAD S	STUD. Stud	Length = 64.560	inches.		
							3			
	•									
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 H	ead Stud						
			REACTOR VE	ESSEL CLOSI	URE HEAD S	STUD. Stud	Length = 64.560	inches.		
			11210101111		0.1211212	, ob. olda	2011921 3 11000	in one of		
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 H	ead Stud						
					URF HEAD S	STUD Studi	enath = 64 560	inches		
			REACTOR VESSEL CLOSURE HEAD STUD. Stud Length = 64.560 inches.							

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H REACTOR V		SURE HEAD S	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 H		SURE HEAD S	STUD. Stud	Length = 64.560	inches.	
M2.B6.20.0015	2RPV-664-31-49			,				
IVI2.D0.20.00 19	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	_
		RV Closure H REACTOR VI		SURE HEAD S	STUD. Stud	Length = 64.560	inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.B6.20.0016	2RPV-664-31-12 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS	<u> </u>	7.000 / NA	50501	
		RV Closure He		SURE 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 He		SURE HEAD S	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	
	WOW 2201.01-0100	RV Closure He		SURE HEAD S	STUD. Stud	Length = 64.560) inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H REACTOR VI		SURE 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 H REACTOR VI		SURE 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 H REACTOR VI		SURE HEAD	STUD. Stud	Length = 64.560) inches.	

Summary Num Category B-G-1	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
M2.B6.20.0022		ИСМ 2201.01-01 ИСМ 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501		
			RV Closure H REACTOR VE		URE HEAD S	TUD. Stud I	_eng th = 64.560	inches.		
M2.B6.20.0023	2RPV-664-31-36				12.		· · · · · · · · · · · · · · · · · · ·		· · · · · ·	
WIZ.B0.20.0023	Class 1 NC N	MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS ·		7.000 / NA	50501		
			RV Closure H	ead Stud						
			REACTOR VE	SSEL CLOS	URE HEAD S	TUD. Stud I	_ength = 64.560	inches.		
				•	٠					
M2.B6.20.0024		ИСМ 2201.01-01 ИСМ 2201.01-0106	PDI-UT-5	UT	cs		7.000 / NA	50501		
			RV Closure H REACTOR VE		URE HEAD S	TUD. Stud I	_ength = 64.560	inches.		

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.B6.20.0025	2RPV-664-31-50 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS	1 200 000	7.000 / NA	50501	
		RV Closure He		URE HEAD S	STUD. Stud	Length = 64.560) inches.	
M2.B6.20.0026	2RPV-664-31-51							
M2.D0.20.0020	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	· cs		7.000 / NA	50501	
		RV Closure Ho		URE HEAD S	STUD. Stud	Length = 64.560) inches.	
M2.B6.20.0027	2RPV-664-31-52							
1912.DU.2U.UU21	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	
		RV Closure He		URE HEAD S	STUD. Stud	Length = 64.560) inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H REACTOR VE		SURE 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 RV Closure H REACTOR VE		CS SURE HEAD	STUD. Stud	7.000 / NA Length = 64.560	50501 Dinches.	
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 H		:URE HEAD	STUD. Stud	Length = 64.560	inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H REACTOR VE		SURE 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 H REACTOR VE		SURE 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	
	IVICIVI 2201.01-0100	RV Closure H REACTOR VI		SURE HEAD	STUD. Stud	Length = 64.560) inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 He		SURE HEAD S	STUD. Stud	Length = 64.560	inches.	
M2.B6.20.0035	2RPV-664-31-18 Class 1 NC MCM 2201.01-01	DDI UT 6	LIT	CS.	H	7 000 / NA	50501	
	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5		CS		7.000 / NA		
		REACTOR VE	ESSEL CLOS	SURE HEAD S	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 He		SURE HEAD S	STUD. Stud	Length = 64.560	inches.	

Summary Num Category B-G-1	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.B6.20.0037		CM 2201.01-01 CM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	
			RV Closure H		URE HEAD S	STUD. Stud I	.ength = 64.560	inches.	
M2.B6.20.0038	2RPV-664-31-21 Class 1 NC M	CM 2201.01-01	PDI-UT-5	UT	CS		7.000 / NA	50501	
	M	CM 2201.01-0106	RV Closure H		URE HEAD S	TUD. Stud	_ength = 64.560	inches.	
M2.B6.20.0039	5,400 i iii	CM 2201.01-01 CM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	
			RV Closure H		URE HEAD S	TUD. Stud	.ength = 64.560	inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 He		URE 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 He		URE HEAD S	STUD. Stud I	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 He		URE HEAD S	STUD. Stud I	Length = 64.560) inches.	

This report includes all changes through addendum 4MNS2-004 McGuire 2, 4th Interval (EOC-23)

Summary Num Category B-G-1	Component ID ISO/DWG Numb Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.B6.20.0043	2RPV-664-31-26							
W.Z.150.20.3040	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	
		RV Closure H	lead Stud					
		REACTOR V	ESSEL CLOS	URE HEAD	STUD. Stud	Length = 64.560) inches.	
M2.B6.20,0044	2RPV-664-31-27	·		<u>.</u>				
WZ.50.20.0044	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	CS		7.000 / NA	50501	
		RV Closure F	lead Stud					
		REACTOR V	ESSEL CLOS	URE HEAD	STUD. Stud	Length = 64.560) inches.	·
M2.B6.20.0045	2RPV-664-31-28							
WZ.B0.20.0043	Class 1 NC MCM 2201.01-01 MCM 2201.01-0106	PDI-UT-5	UT	cs		7.000 / NA	50501	_
		RV Closure H	lead Stud					
		REACTOR V	ESSEL CLOS	URE HEAD	STUD. Stud	Length = 64.560) inches.	

This report includes all changes through addendum 4MNS2-004 McGuire 2, 4th Interval (EOC-23)

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H REACTOR VE		SURE 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 H REACTOR VE		SURE 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 H REACTOR VI		SURE HEAD	STUD. Stud	Length = 64.560) inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H REACTOR VI		SURE 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 H REACTOR VI		SURE 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 H REACTOR VI		SURE HEAD	STUD. Stud	Length = 64.560	inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 He		SURE 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	-
				SURE HEAD S	STUD. Stud I	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 He REACTOR VE		SURE HEAD S	STUD. Stud	_ength = 64.560	inches.	

Summary Num Category B-G-1	Component ID ISO/DWG Num Class / System	bers Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.B6.50.0001	2RPV-664-33-01 Class 1 NC MCM 2201.01-01 MCM 2201.01-010	NDE-62 06	VT-1	cs		7.000 / NA		B06.050.001
		RV Closure F REACTOR V		URE HEAD	WASHER.			
M2.B6.50.0002	2RPV-664-33-02 Class 1 NC MCM 2201.01-01	NDE-62	VT-1	cs		7.000 / NA		B06.050.002
	MCM 2201.01-010				WASHER.			
M2.B6.50.0007	2RPV-664-33-03 Class 1 NC MCM 2201.01-01 MCM 2201.01-010	NDE-62 06	VT-1	cs		7.000 / NA		B06.050.003
		RV Closure H REACTOR V		URE HEAD	WASHER.			

Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
				···				
Class 1 NC	MCM 2201.01-01	NDE-62	VT-1	cs		7.000 / NA		B06.050.004
		RV Closure H	ead Washer					
		REACTOR VE	ESSEL CLOS	URE HEAD \	VASHER.			
2RPV-664-33-0	 5							
0.40-		NDE-62	VT-1	CS		7.000 / NA		B06.050.005
		RV Closure H	ead Washer					
		REACTOR VE	ESSEL CLOS	URE HEAD \	VASHER.			
2RPV-664-33-06				· ·				
Class 1 NC	MCM 2201.01-01	NDE-62	VT-1	CS		7.000 / NA		B06.050.006
		RV Closure H	ead Washer					
		REACTOR VE	ESSEL CLOS	URE HEAD V	VASHER.			
	2RPV-664-33-04 Class 1 NC 2RPV-664-33-04 Class 1 NC	2RPV-664-33-04 Class 1 NC MCM 2201.01-01	Class / System Description Comments 2RPV-664-33-04 Class 1 NC MCM 2201.01-01	Description Comments	Description Comments	Description Comments 2RPV-664-33-04 Class 1 NC MCM 2201.01-01 NDE-62 VT-1 CS RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER. 2RPV-664-33-05 Class 1 NC MCM 2201.01-0106 RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER. 2RPV-664-33-05 RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER. 2RPV-664-33-06 Class 1 NC MCM 2201.01-01 MCM 2201.01-0106 RV Closure Head Washer REACTOR VESSEL CLOSURE HEAD WASHER.	Description Comments	Description Comments

Summary Num Category 8-G-1	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
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 H	lead Washer					
		REACTOR V	ESSEL CLOS	SURE 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 H	lead Washer					
		REACTOR VI	ESSEL CLOS	SURE 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 H	ead Washer					
		REACTOR VI	ESSEL CLOS	SURE HEAD	WASHER.			

Summary Num Category B-G-2	Component ID ISO/DWG Number Class / System	s Procedure Insp R Description Comments	Req Material	Sched Thick/NPS	Cal Blocks	Componenet ID 2				
M2.B7.10.0001	2-RPV-CONOSEAL-1	W B				<u> </u>				
W2.B7.10.0001	Class 1 NC MCM 2201.01-0109 MC-ISIN4-2553-01.0 MC-ISIN4-2553-01.0		1 UNK	NA / NA		<u></u>				
		Conoseal Bolting								
		Port # 1 (R-11) Cones MP/0/A/7150/051. Loc	seals. Bolted Conn cation for the Cond	ections on the Upper and Low oseals is shown on Enclosure	ver Conoseal Clamps show 13.5 of MP/0/A/7150/051 a	n on Enclosure 13.3 of ind MCM 2201.01-0003.				
M2.B7.10.0002	2-RPV-CONOSEAL-2									
M2.B7.10.0002	Class 1 NC MCM 2201.01-0109 MC-ISIN4-2553-01.0 MC-ISIN4-2553-01.0		I UNK	NA / NA						
		Conoseal Bolting								
				ections on the Upper and Low oseals is shown on Enclosure						
M2.B7.10.0003	2-RPV-CONOSEAL-3									
WZ.D7.10.0003	Class 1 NC MCM 2201.01-0109 MC-ISIN4-2553-01.0 MC-ISIN4-2553-01.0		I UNK	NA / NA						
		Conoseal Bolting	,							
		Port # 3 (E-15) Conos	seals. Bolted Conn cation for the Cond	ections on the Upper and Low oseals is shown on Enclosure	ver Conoseal Clamps show 13.5 of MP/0/A/7150/051 a	n on Enclosure 13.3 of and MCM 2201.01-0003.				

Summary Num Category B-G-2	Component ID Class / Systen		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet	ID 2
M2.B7.10.0004	2-RPV-CONOS Class 1 NC	SEAL-4 MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK	. :	NA / NA			
			Conoseal Boli Port # 4 (A-5) MP/0/A/7150/	Conoseals. B	olted Conne for the Cond	ctions on the seals is show	Upper and Lowe n on Enclosure	er Conoseal Clamps sh 13.5 of MP/0/A/7150/0	own on Enclosure 13.3 of 51 and MCM 2201.01-0003.	
M2.B7.10.0005	2-RPV-CONOS Class 1 NC	SEALS-5 MCM 2201.01-0109 MC-ISIN4-2553-01.00 MC-ISIN4-2553-01.00	NDE-62	VT-1	UNK		NA / NA	· · · · · · · · · · · · · · · · · · ·		
			Conoseal Bolt Port #5 (L-1) MP/0/A/7150/	Conoseals, B	olted Conner for the Cond	ctions on the loseals is show	Jpper and Lowe n on Enclosure	r Conoseal Clamps sho 13.5 of MP/0/A/7150/0	own on Enclosure 13.3 of 51 and MCM 2201.01-0003.	
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		B07.02	20.001
			PZR Manway PRESSURIZE	-	Y BOLTING ((16 BOLTS). I	EXAMINE ALL E	SOLTING MATERIAL.	Stud length = 7.500	

Summary Num Category B-G-2	Component IE Class / Systen		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 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 BOL BOLTING MA	TING (12 ST	UDS). BOLT I length = 10	SIZE DETEF .250"	RMINED USING	MP/0/A/7650/01 ENCLO	OSURE 13.2. EXAMINE ALL fLANGE
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 BOL FLANGE BOL	TING (4 STU	DS). BOLTIN	NG SIZE DET ngth = 10.250	ERMINED USIN	IG MP/0/A/7650/01 ENC	CLOSURE 13.2. EXAMINE ALL
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 BOL FLANGE BOL	TING (4 STU				IG MP/0/A/7650/01 ENC	CLOSURE 13.2. EXAMINE ALL

Summary Num Category 8-G-2	Component IE Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 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 BOL FLANGE BOL	TING (4 STL	IDS), BOLTIN RIAL, Resche	NG SIZE DET	ERMINED USIN age 6 per 2MNS	IG MP/0/A/7650/01 EN -037. Stud length = 10.:	CLOSURE 13.2. EXAMINE ALL 250"
M2.B7.50.0007	2NV282-FL1	MOS! 011/000							
	Class 1 NV	MCFI-2NV282 MC-ISIN4-2554-01.01	NDE-62	VT-1	SS		1.000 / NA		B07.050.103
			Flange Bolting FLANGE BOL FLANGE BOL	TING (4 STL				IG MP/0/A/7650/01 EN	CLOSURE 13.2. EXAMINE ALL
	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" 2NC-3.	CROSBY RI	ELIEF VALVE	E. INSPECT	ONE OF THE F	OLLOWING VALVES IN	N GROUP 1: 2NC-1, 2NC-2, AND

Summary Num Category B-K	Component li Class / Syste		Procedure Description Comments	Insp Req	Material	Sched Thick/NPS	Cal Blocks	Componenet ID 2
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
			SEISMIC LUG				L MY OHADDANT DTAM	NAV DE LIGED IN DI ACE OF ME IF
			NECESSARY.			d attachment for implementa		IAY BE USED IN PLACE OF MT IF
Category B-M-2								
M2.B12.50.0001	2NC-1							-
WZ.B 12.30.0001	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
			Valve Body Int	ernal				
						. INSPECT ONE OF THE F MAINTENANCE, REPAIR, (GROUP 1: 2NC-1, 2NC-2, AND NATION.
Category B-N-1				-				
M2.B13.10.0001	2RPV-INTERI	OR						
	Class 1 NC		NDE-63	VT-3	UNK	NA / NA		B13.010.001
			Vessel Interior					
			REACTOR CO REFUELING O THIS EXAMIN PERFORMED	ORE THAT A OUTAGES. ATION WAS FOR 2EOC	RE MADE AO INSPECT EA S PERFORME -16/OUTAGE	CH INSPECTION PERIOD. ED FOR THE SECOND INTE 1, WILL REPORT BUT WILL	FION BY REMOVAL OF C RVAL PER RFR 03-004. I NOT COUNT FOR PERC	OMPONENTS DURING NORMAL EXAMINATION ALSO

Summary Num Calegory C-A	Component IE Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.C1.10.0008	2RHR-2B-3-4								
WIZ.C 1. 10.0008	Class 2 ND	MCM 1201.06-22	NDE-68	VT-2	SS		0.750 / NA		C01.010.2559, C01.010.2560
		MC-ISIN4-2561-01.00							001.010.2300
Circumferential									
			NOZZLE BEL	T to Flange					
			RESIDUAL H	EAT REMOV	'AL HEAT EX	CHANGER :	2B.		
			the Third Inter the Class 2 Pr	val which allo ressure Test	ow an alterna Boundary an	itive exam (V d will receive	T-2) for this weld a VT-2 exam on	I. The Residual Heat R	has been incorporated for use during temoval Heat Exchanger 2B is inside ditional information reference PIP G-08- 00252).
				n be performe	ed. Use of th	is code case			nager will be notified of leakage so anger and others of the same design or
									terval, Inservice Inspection Plan - performed for this weld.
			Please Not	e: Thickness	and material	are to be ve	rified prior sched	ule and exam	
M2.C1.10.0009	2RHRHX-2A-3	-4	***			-i		·	
	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 BEL	T to Flange					
			RESIDUAL H		'AL HEAT EX	CHANGER:	2A.		
			the Third Inter the Class 2 Pr	val which allo ressure Test	ow an alterna Boundary an	itive exam (V d will receive	T-2) for this weld a VT-2 exam on	I. The Residual Heat R	has been incorporated for use during temoval Heat Exchanger 2A is inside ditional information reference PIP G-08- 00252).
			If evidence of evaluation car configuration	n be performe	ed. Use of th	is code case	g system leakage shall be disconti	etest, the NDE Plan Ma nued for the heat excha	nager will be notified of leakage so anger and others of the same design or
									terval, Inservice Inspection Plan - performed for this weld.
			Please Not	e: Thickness	and material	are to be ve	rified prior sched	ule and exam	

Summary Num Category C-4	Component II Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
M2.C1.20.0014	2RHR-2B-2-3								
W.Z.C 1.20.00 14	Class 2 ND	MCM 1201.06-22	NDE-68	VT-2	SS		0.750 / NA		C01.020.2561, C01.020.2562
		MC-ISIN4-2561-01.00							001,020,2002
Circumferential									
			NOZZLE BEL	T to HEAD					
			RESIDUAL H	EAT REMOV	'AL HEAT EX	CHANGER	2B.		
			Third Interval Class 2 Press	which allow a sure Test Bou	an alternative Indary and wi	exam (VT-2 Il receive a V) for this weld. T /T-2 exam once e	he Residual Heat Rem	has been incorporated for use during the oval Heat Exchanger 2B is inside the onal information reference PIP G-08-00252).
				n be performe	ed. Use of th	is code case			anager will be notified of leakage so anger and others of the same design or
									nterval, Inservice Inspection Plan - performed for this weld.
			Please Note	: Thickness a	nd material a	re to be veri	fied prior schedu	le and exam	
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									
			NOZZLE BEL	T to HEAD					
			RESIDUAL H	EAT REMOV	AL HEAT EX	CHANGER:	2A.		
			Third Interval Class 2 Press	which allow a ure Test Bou	an alternative Indary and wi	exam (VT-2 Il receive a \) for this weld. T /T-2 exam once	he Residual Heat Rem	has been incorporated for use during the oval Heat Exchanger 2A is inside the onal information reference PIP G-08-00252).
			If evidence of evaluation cal configuration	n be performe	ed. Use of th	is code case	g system leakage shall be disconti	test, the NDE Plan Ma nued for the heat exch	anager will be notified of leakage so anger and others of the same design or
									nterval, Inservice Inspection Plan - performed for this weld.
			Please Not	e: Thickness	and material	are to be ve	rified prior sched	ule and exam	

Summary Num	Component ID Class / System) ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
M2.C1.30.0005	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	C01.030.00 ⁻
Circumferential									
			TUBE SHEET	to SHELL					
			STEAM GENE	ERATOR 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	C01.030.00 ⁻
Circumferential									
			TUBE SHEET	to SHELL					
			STEAM GENE	ERATOR 2A.					
Category C-B									
M2.C2.21.0001	2SGA-W258 Class 2 SM	MCM 2201.01-0207	NDE-25	MT	cs		4.125 / NA		C02.021.001,
		MC-ISIN4-2591-01.01 MCM 2201.01-0159							C02.021.001A
Circumferential									
			Nozzle to Stea	am Drum					
			STEAM GENE exam	ERATOR 2A	FEEDWATER	NOZZLE.	Please Note: T	hickness and material a	re to be verified prior schedule and

Summary Num	Component II Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-B			·						
M2.C2.21.0001	2SGA-W258 Class 2 SM	MCM 2201.01-0207	NDE-820	UT	cs		4.125 / NA	5139385	C02.021.001, C02.021.001A
		MC-ISIN4-2591-01.01 MCM 2201.01-0159							· CU2.U21.UU1A
Circumferential									
			Nozzle to Stea	am Drum					
			STEAM GENI exam	ERATOR 2A	FEEDWATE	R NOZZLE.	Please Note: T	hickness and material a	are to be verified prior schedule and
M2.C2.21.0001	2SGA-W258							.	
	Class 2 SM	MCM 2201.01-0207	NDE-640	UT	cs		4.125 / NA	5139385	C02.021.001,
		MC-ISIN4-2591-01.01 MCM 2201.01-0159							C02.021.001A
Circumferential									
			Nozzle to Stea	am Drum					
			STEAM GENE	ERATOR 2A	FEEDWATE	R NOZZLE.	Please Note: T	hickness and material a	are to be verified prior schedule and
M2.C2.21.0005	2SGA-W259								
	Class 2 SM	MCM 2201.01-0207	NDE-25	MT	cs		4.125 / NA		C02.021.005, C02.021.005A,
		MC-ISIN4-2591-01.01 MCM 2201.01-0160							C02.021.2577
Circumferential									
			Nozzle to Stea	am Drum					
			STEAM GENE schedule and unscheduled.	exam. For 2	EOC23 this e	xam schedu	ER NOZZLE. P led and STEAM	lease Note: Thickness : GENERATOR 2C AUXI	and material are to be verified prior LLIARY FEEDWATER NOZZLE

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component Class / Syst		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-B			····						
M2.C2.21.0005	2SGA-W259 Class 2 SI		NDE-820	·UT	CS		4.125 / NA	5139385	C02.021.005 C02.021.005A
		MC-ISIN4-2591-01.01 MCM 2201.01-0160							C02.021.257
Circumferential									
			Nozzle to Ste	am Drum					
				exam. For 2l	EOC23 this e	xam schedi			and material are to be verified prior ILLIARY FEEDWATER NOZZLE
M2.C2.21.0005	2SGA-W259							· · · · · · · · · · · · · · · · · · ·	
	Class 2 Sf	MCM 2201.01-0207	NDE-640	UT	CS		4.125 / NA	5139385	C02.021.005, C02.021.005A, C02.021,257
	,	MC-ISIN4-2591-01.01 MCM 2201.01-0160							002.021.1207
Circumferential									
			Nozzle to Stea	am Drum					
				exam. For 21	EOC23 this e	xam schedi			and material are to be verified prior ILLIARY FEEDWATER NOZZLE
Category C-C									
M2.C3.20.0022	2MCA-ND-5	311							
	Class 2 NI		NDE-35	PT	SS	20	0.375 / 12.000		C03.020.024
Mech Snubber									
			Attachment to	Pipe Weld					
			WELDED AT	TACHMENT.	INSPECT W	TTH F01.02	0.103C. If materi	al must be known this r	must be determined in the field

SDQA Cat "C"

McGuire 2 12/9/2015 1:21:57 PM Page 35 of 61

Printed 12/09/15 rww5601 v. 06/18/09

Summary Num	Component ID SO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.10.0001	2MCR-NC-4500							,
	Class 1 NC MCSRD-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 MCSRD-2NC-210/sht.	1 NDE-66	VT-3	NA		NA / 2.000		F01.010.006C
Mech Snubber		1102 00				7077 2.000		1 01.010.0000
								•
M2.F1.10.0007	2MCR-NC-4254							
	Class 1 NC MCSRD-2NC-210/sht.	1 NDE-66	VT-3	NA		NA / 2.000		F01.010.007C
Mech Snubber								

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.10.0014	2MCR-NC-4120							
	Class 1 NC MCSRD-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 MCSRD-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 MCSRD-2NV-202/sht. 2	2 NDE-66	VT-3	NA		NA / 3.000		F01.010.017C,
								F01.010.018C
Mech Snubber								

Summary Num	Component ID IS Class / System	SO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A			<u>-</u>						
M2.F1.10.0019	2MCR-NC-4093								
	Class 1 NC MC	SRD-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	SRD-2ND-201/sht. 2	NDE 00	V/T O	NIA		NA / 0 000		F04 040 070A
Rigid Support	Class 1 NI MC	3RD-2ND-201/8Nt. 2	NDE-66	VT-3	NA		NA / 8.000		F01.010.076A
						 ,			
M2.F1.10.0024	2MCR-NI-4943	CDD OND COA/-bt C	LIDE 65	100					
Mech Snubber	Class 1 NI MC	SRD-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 8.000		F01.010.077C

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched Th	nick/NPS	Cal Blocks	Componenet ID 2
Category F-A						_			
M2.F1.10.0025	2MCR-NI-4654 Class 1 NI M	1CSRD-2ND-201/sht. 2	NDE-66	VT-3	NA	N/	A / 8.000		F01.010.078A, F01.010.078B
Rigid Restraint									107.010.0102
M2.F1.10.0101	2MCR-NC-4791 Class 1 NC M	1CSRD-2NC-202/sht. 1	NDE-66	VT-3	SS	0.50	00 / 3.000		F01.010.020C, F01.010.6086
Mech Snubber							••		
			INSPECT WIT	ГН В10.020.0	001				
M2.F1.10.0141	2MCR-NI-4661								
		ICSRD-2ND-201/sht. 2	NDE-66	VT-3	NA	N	A / 8.000		F01.010.093C, F01.010.6163
Hyd Snubber									

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A							<u>-</u> .	
M2.F1.10.0160	2MCR-NV-4007 Class 1 NV MCSRD-2NV-207/sht. 1	NDE-66	VT-3	NA		NA / 2.000		F01.010.115C,
Mech Snubber								F01.010.6200
<u></u>								
M2.F1.20.0003	2MCA-CA-H15							
	Class 2 CA MCSRD-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 MCSRD-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)

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.F1.20.0032	2MCA-ND-5204			-					
	Class 2 ND N	MCSRD-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 M	MCSRD-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 M	MCSRD-2FW-350/sht. 4	NDE-66	VT-3	NA		NA / 18.000		F01.020.102A
Rigid Support	Cides 2 ND II	NOOND EN THE GOODSHILL 4	NDE-00	V 1-0	INA		14/17 10.000		1 01.020.102A

Summary Num		ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	ı	Componenet ID 2
	Class / System		Description Comments							
Category F-A										
M2.F1.20.0035	2MCA-ND-5311				-					
	Class 2 ND Mo	CSRD-2FW-350/sht. 4	NDE-66	VT-3	NA		0.375 / 12.000			F01.020.103C
			INSPECT WI	TH C03.020.0	024. (LIMIT S	TOP)				
M2.F1.20.0065	2MCR-NI-4821							-272		
	Class 2 NI M	CSRD-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 M	CSRD-2NI-208/sht. 1	NDE-66	VT-3	NA		NA / 2.000			F01.020.159B
Rigid Restraint										

Summary Num	Component ID ISO/DWG Num Class / System	bers Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.20.0067	2MCR-NI-4787 Class 2 NI MCSRD-2NI-209/s	sht. 1 NDE-66	VT-3	NA		NA / 4.000		F01.020.160A
Rigid Support								
								•
110 71 00 0000	21422 11122							
M2.F1.20.0068	2MCR-NI-4772 Class 2 NI MCSRD-2NI-209/s	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 MCSRD-2NI-213/s	sht. 1 NDE-66	VT-3	NA		NA / 3.000		F01.020.168B
Rigid Restraint	CidSS 2 IVI WCGIND-2IVI-2 IS/8	MDE-00	V 1-3	INA		1NW / 9.000		FU1.020.108B
ragio restant								

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.20.0076	2MCR-NI-4896		-					
	Class 2 NI MCSRD-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 MCSRD-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 MCSRD-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 ISO/DWG Nui Class / System	mbers Procedure Description Comments	1	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.20.0082	2MCA-NI-5036					1		
	Class 2 NI MCSRD-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 MCSRD-2NI-350)/sht. 3 NDE-66	VT-3	NA		NA / 4.000		F01.020.176B
Rigid Restraint								
NO 54 00 000 /								
M2.F1.20.0084	2MCA-NI-5806 Class 2 NI MCSRD-2NV-35	3/sht. 3 NDE-66	VT-3	NA		NA / 4.000		F01.020.178B
Digid Postraint	Class 2 IVI WC3RD-2NV-33	orani. 3 NDE-00	V 1-3	NA		INA / 4.000		F01.020.178B
Rigid Restraint								

Summary Num	Component ID ISO/DWG Number Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.20.0169	2MCA-SM-H24 Class 2 SM MCSRD-2SMA/sht.	2 NDE-66	VT-3	NA		NA / 34.000		F01.020.428C, F01.020.432C
Mech Snubber								, 011025/1925
M2.F1.20.0173	2MCA-SM-H69							
	Class 2 SM MCSRD-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 MCSRD-2VQ-201/sh	nt. 1 NDE-66	VT-3	NA		NA / 6.000		F01.020.500B, F01.020.505B
Rigid Restraint								. = 3.0.0.000

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.F1.20.0179	2MCR-VQ-4507								
	Class 2 VQ	MCSRD-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	MCSRD-2WL-207/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.525B
Rigid Restraint									
M2.F1.20.0185	2MCA-CA-H14								
		MCSRD-2CAM/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.013A, F01.020.6269
Rigid Support									

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.0187	2MCA-CA-H142			- "		•			
	Class 2 CA M	ICSRD-2CAP/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.019C, F01.020.627
Hyd Snb/Mec Snb									1 01.020.027
			This item was	examined E0	OC-17/Outag	e 2 as an ad	ditional sample fo	or 2MCR-CA-H26. (2MNS-021)	
M2.F1.20.0302	2MCA-ND-5506			-				<u> </u>	
		1CSRD-2ND-350/sht. 5	NDE-66	VT-3	UNK		0.125 / 8.000		F01.020.132A, F01.020.6509
Rigid Support									
			Thickness is r	eference dim	ension only				
M2.F1,20,0329	2MCA-ND-5802								
IVIZ.F 1.ZU.U3Z9		1CSRD-2ND-350/sht. 6	NDE-66	VT-3	NA		NA / 8.000		F01.020.133 A , F01.020.6562
Rigid Support									1 5 1.520.0002

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.F1.20.0403	2MCA-NI-5045 Class 2 NI	MCSRD-2ND-362/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.184A, F01.020.6709
Rigid Support									101152516766
M2.F1.20.0483	2MCA-NS-5207								
	Class 2 NS	MCSRD-2NS-352/sht. 1	NDE-66	VT-3	UNK		0.125 / 10.000		F01.020.228A, F01.020.6843
Rigid Support									
			Thickness is r	eference din	nension only				
M2.F1.20.0763	2MCA-SV-H9	MCSDD 25VA/obt 4	NDE 00	V/T 0	- NA		NA / C 000		F04 000 477D
	Class 2 SV I	MCSRD-2SVA/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.477B, F01.020.7322
Rigid Restraint									

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.0836	2MCR-NI-4060		1 - 1 - 1 -						
	Class 2 NI N	MCSRD-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 M	/ICSRD-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 M	/ICSRD-2ND-201/sht. 2	NDE-66	VT-3	NA		NA / 12.000		F01.020.183A, F01.020.7632
Rigid Support									

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.20.1137	2MCA-CA-H131 Class 2 CA MCSRD-2CAP/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.015B
Rigid Restraint								
M2.F1.20.1138	2MCA-CA-H21			<u>i</u>				
WZ.F 1.20, 1 136	Class 2 CA MCSRD-2CAM/sht. 1	NDE-66	VT-3	NA		NA / 4.000		F01.020.016C
Hyd Snubber								
M2 F4 20 0004	ONCA CA FACO					<u> </u>		
M2.F1.30.0001	2MCA-CA-5160 Class 3 CA MCSRD-2CA-351/sht. 1	NDE-66	VT-3	NA		NA / 8.000		F01.030.001B
Rigid Restraint		••						

Summary Num	Component ID ISO/DWG Number Class / System	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.30.0002	2MCA-CA-5210			-				
	Class 3 CA MCSRD-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 MCSRD-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 MCSRD-2CA-356/sht	. 1 NDE-66	VT-3	NA		NA / 6.000		F01.030.004A, F01.030.8173
Rigid Support								

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A		W-18-18-18-18-18-18-18-18-18-18-18-18-18-						· · · · · · · · · · · · · · · · · · ·	
M2.F1.30.0650	2MCA-RV-H50	3				-			
	Class 3 RV	MCSRD-2RN-364/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.030.191B
Rigid Restraint									
					٠				
									•
M2.F1.40.0002	2PZR-LUGS					 	. 		
	Class 1 NC	MCM 2201.01-15	NDE-66	VT-3	UNK .		NA / NA		F01.040.002, F01.040.002B
		MC-ISIN4-2553-02.00 MCM 2201.01-16							P01.040.002B
Rigid Restraint									
			PRESSURIZE	ER SUPPOR	LUGS. REF	ERENCE DR	AWING MC-107	'0-22 <i>.</i>	
		•							
M2.F1.40.0075	2NSP-SUPPOI	RT-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 Restrair	nt					
			CONTAINME	NT SPRAY P				NTAL RESTRAINT AND RESTRAINT. REFER	O VERTICAL SUPPORT. EOC-18 / ENCE PIP M-07-323.

Summary Num	Component IE Class / Syster		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2	
Category F-A						 				
M2.F1.40.0080	2NSHX-SUPP Class 2 NS	ORT-2B MCM 1201.06-0090 MC-ISIN4-2563-01.00 MC 1220-32	NDE-66	VT-3	cs		NA / NA		F01.040.039B	
Rigid Restraint										
			RESTRAINTS	S. EXAMINE EOC18 / OU	WITH M2.D1 JTAGE 3 RE	.10.0023. S	INCE "HX A" & "	HX B" ARE OF DIFFER	RT AND UPPER LATERAL RENT DESIGN, BOTH WILL BE LATERAL RESTRAINTS.	
			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							
M2.F1.40.0092	2NSHX-SUPP	ORT-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										
			RESTRAINTS	S. EXAMINE EOC-18/OL	WITH M2.D1 JTAGE 3 RE	.10.0024. S	INCE "HX A" & "	HX B" ARE OF DIFFE	RT AND UPPER LATERAL RENT DESIGN, BOTH WILL BE LATERAL RESTRAINTS.	
			examined (VT Lateral Restra (VT-3) is the r these support	-3) during EC lints should b equired exants s have been	DC-18 IE re e classified a n method for examined in	view determins Class 3 ba Examination Examination	ned the Contain sed on lugs bein Category F-A, Ite val DE will not re	ment Spray Heat Exch g attached to the Class em No. F1.40. for both e-categorize the Contai	were categorized as Class 2 and were anger Lower Supports and Upper s 3 side of vessel. A visual examination Class 2 and Class 3 supports. Since nment Spray Heat Exchanger Lower evelopment. Reference PIP G-09-0921	

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / Systen		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet 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	NA			
								PDI-UT-2A-M 50202				
			Pipe to Nozzl	е								
			Reference Co	ode Case N-7	716, Examina	tion Categor	y R-A, Item No. F	₹1.11.				
M2.R1.17.0161	RN2FW180-9											
		MCFD-2754-02.00 MC-2418-14.41-02 MCFI-2RN180	NDE-946	UT	SS	40	0,322/8.000	Step_Wedge	N <i>A</i>			
			PIPE TO ELB	}								
			Reference Co									
		•										
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.									

Reference Code Case N-716, Table 1, Examination Category R-A, Item No. R1.17, Note 6.

Summary Num	Component ID Class / Systen		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 ELE	,							
			Reference Co	ode Case N-7	'16, Table 1, E	Examination	Category R-A, It	em 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 Co	ode Case N-7	716, Table 1, E	Examination	Category R-A, It	em 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.								

McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet 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	3					
			Reference Co	ode Case N-7	16, Table 1, E	xamination	Category R-A, Ite	em 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 Co	ode Case N-7	16, Examinati	on Categor	y R-A, Item No. R	1.20, 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 Co	de Case N-7	16 Evaminati	on Categor	v R-A Item No R	1.20. Notes 9 and 10.	

Reference Code Case N-716, Examination Category R-A, Item No. R1.20, Notes 9 and 10.

Summary Num	Component ID Class / Systen		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category R-A	0110051400 40		<u> </u>						
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	_
		WO 101144 2000-01.00						PDI-UT-2A-M	
								PDI UT 2-O	
			Elbow to Pipe						
			Reference Co	de Case N-7	16, Examinati	on Categor	y R-A, Item No. R	1.20.	
				· · · · · · · · · · · · · · · · · · ·					
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	
		WO-101144-2555-01,00						PDI-UT-2A-M	
								PDI UT 2-O	
			Pipe to Elbow						
			Reference Co	de Case N-7	16, Examinati	on Categor	y R-A, Item No. R	1.20.	
							·		
M2.R1.20.0093	2NC2FW22-14 Class 1 NC	MCFI-2NC22	DDI LIT 0	UT	SS	140	1 250 / 14 000	PDI-UT-2-M1	•
	Class I NC	MC-ISIN4-2553-01.00	PDI-UT-2	UT	55	140	1.250 / 14,000	PDI-01-2-W1	
								PDI-UT-2A-M	
			Pipe to Elbow						
			Reference Co	de Case N-7	16, Examinati	on Categor	y R-A, Item No. R	1.20.	

This report includes all changes through addendum 4MNS2-004 McGuire 2, 4th Interval (EOC-23)

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category R-A				<u> </u>					
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 Co	de Case N-71	I6, Examination	on Categor	y R-A, Item No. R	1.20.	
M2.R1.20.0096	2NC2FW22-18				<u>=</u>				
		MCFI-2NC22 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	140	1.250 / 14.000	PDI-UT-2-M1	-
		WE 10111 2000 0 1100						PDI-UT-2A-M	
			Reducer to Te	е					
			Reference Co	de Case N-71	6, Examinatio	on Categor	y R-A, Item No. R	1.20.	
									·
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	
		WO-101144-2003-01,00						PDI-UT-2A-M	
								50211	
			Pipe to Elbow						
			Reference Co	de Case N-71	6, Examination	on Categor	y R-A, Item No. R	1.20.	

Summary Num	Component ID ISO/D Class / System	WG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category R-A						·			
M2.R1.20.0099	2NC2FW22-20 Class 1 NC MCFI-2N MC-ISIN	IC22 4-2553-01.00	PDI-UT-2	UT	ss	160	0.719 / 6.000	PDI-UT-2-M1 PDI-UT-2A-M 50211	
			Elbow to Pipe						
			•	de Case N-71	6, Examinatio	n Category	R-A, Item No. R	1.20.	
M2.R1.20.0100	2NC2FW22-21	=							
	Class 1 NC MCFI-2N		PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1	
	MC-ISIN	4-2553-01.00						PDI-UT-2A-M 50211	
			Pipe to Elbow						
			Reference Cod	de Case N-710	6, Examinatio	n Category	R-A, Item No. R1	1.20.	
M2.R1.20.0102	2NC2FW22-3 Class 1 NC MCFI-2N	IC22	PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1	
		4-2553-01.00	PDI-01-2	O1	33	100	0.71970.000	FDI-01-2-W1	
								PDI-UT-2A-M 50211	
			Elbow to Pipe						
			Reference Coo	de Case N-716	6, Examinatio	n Category	R-A, Item No. R1	1.20.	

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
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		-
			Pipe to Elbow		16 Evaminati	on Categor	y R-A, Item No. R	1 20		
			relateride de	de odde H-7	TO, Examinati	on oategor	y rest, nom no. re	1.20.		
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			-
			Nozzle to Pipe	€						
			Reference Co	de Case N-7	16, Examinati	on Categor	y R-A, Item No. R	1.20, Notes 9 and 10.		
					— End of Re	eport —				-
	STATIS	STICS ONLY Class	1 117 Clas	ss 2 50	Class 3 11	Tota	al by Class 178	Systems	178	Total Count 178

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.

<u>Summary</u> <u>Number</u> **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 F	Results fo	r 2EOC2	23
Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
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	
	·		· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
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	

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
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	
									 · · · · · ·

Summary No	Component ID	System	Insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment	
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	
								-	· · · · · · · · · · · · · · · · · · ·

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
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	
	· · · · · · · · · · · · · · · · · · ·		-						

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
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	

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
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	Υ	N	N	UT-15-524
								Reference NCR # 01957254
		SM	09/23/15	CLR	Υ	N	N	UT-15-525 (Page 1)
								Reference NCR # 01957254
		SM	09/23/15	CLR	Υ	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	Υ	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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
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
Printed 1/6/2016 12:18:44 PM rww5601 v. 01/01/08						DQA Cat	"C"	McGuire 2 1/6/2016 12:17:00 PM

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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment			
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		44	
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	 		

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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.G13.1.0001	Cold Leg 2D Nozzie 4-1	NC	09/15/15	CLR	Y	N	N	UT-15-447 (Page 2)
								Reference NCR#01954096
		NC	09/15/15	CLR	Υ	N	N	UT-15-447 (Page 3)
								Reference NCR#01954096
		NC	09/15/15	CLR	Υ	N	N	UT-15-447 (Page 4)
								Reference NCR#01954096
M2.G13.1.0002	Crossover Leg 2A Nozzle 1	- NC	09/15/15	CLR	Y	N	N	UT-15-441 (Page 1)
	6							Reference NCR#01954107
		NC	09/15/15	CLR	Υ	N	N	UT-15-441 (Page 2)
								Reference NCR#01954107
		NC	09/15/15	CLR	Υ	N	N	UT-15-441 (Page 3)
								Reference NCR#01954107
		NC	09/15/15	CLR	Υ	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	Υ	N	N	UT-15-444 (Page 2)
								Reference NCR#01954204
		NC	09/15/15	CLR	Υ	N	N	UT-15-444 (Page 3)
								Reference NCR#01954204

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.G13.1.0003	Cold Leg 2D Nozzie 4-5	NC	09/15/15	CLR	Y	N	N	UT-15-444 (Page 4)
								Reference NCR#01954204
		NC	09/15/15	CLR	Υ	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	Υ	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	Υ	N	N	UT-15-523 (Page 4)
								Reference NCR#01955373
		NC	09/17/15	CLR	Υ	N	N	UT-15-523 (Page 5)
								Reference NCR#01955373
		NC	09/16/15	CLR	Υ	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
	42.42.44 DM					204 004		MaQuisa 2, 4(6/04/6 42)47:00 DM

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.G9.1.0001	2ND17-TEE	ND	09/20/15	CLR	Υ	N	N	UT-15-526 (Page 1)
								Reference NCR 01955356
		ND	09/20/15	CLR	Υ	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	Υ	N	N	UT-15-486 (Page 2)
								Reference NCR 01955274
		ND	09/17/15	CLR	Υ	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	Υ	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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
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	Υ	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	Υ	UT-15-448 (Page 1)
								Reference NCR 01954197
		NC	09/15/15	CLR	Υ	N	Y	UT-15-448 (Page 2)
		•						Reference NCR 01954197
		NC	09/15/15	CLR	Υ	N	Υ	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
<u> </u>								

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
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

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
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.

1. Owner	Puke Energy Carolinas, LLC			Date 10/10/2015			
	526 South Church Street, Charlotte, Address	NC, 28201		— Sheet 1 of 2	_		
2. Plant	McGuire Nuclear Station Name			Unit <u>2</u>			
	12700 Hagers Ferry Road, 1	Huntersville, NC 28078		1811559-02			
	Addres	3		Work Order # (or Repair	/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Performe	d by <u>Duke Energy Carolinas, Ll</u>	<u>.C</u>		Type Code Symbol S	tamp: N/	A	
	526 South Olomah Charact	W1-4 NG 20201 100		Authorization	1 No.: <u>N/</u>	<u>A</u>	
	526 South Church Street, C Addres		<u> </u>	Expiration 1	Date: N/	'A	
4. Identification of	System CA - Auxiliary Feedwate	<u> </u>					
(b) Applicable	Construction Code ASME III Edition of Section XI used for Repartment of Section XI Code Case(s) N/A	nir/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
6. Identification of	f 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	Corrected	Yes
						 	
				<u> </u>			
					<u>. </u>	<u> </u>	
7. Description of V	Work <u>Replaced Compone</u>	nt/Part/Appurtenance					
Additional Descr	iption Replaced external	plug in valve 2CA12.					
	d: Hydrostatic Pneumatic (Optional): Test performed per pro			empt Other Press	ure	PSI Test Tem	pp
•							

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

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Information, as Applicable): Component Line Size: 8 in (nominal) System Class: A SME Class 3	Sheet <u>2</u> of <u>2</u>
- System Class. ASIME Class 5	
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:	<u> </u>
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 Expir	ation Date N/A
	Date October 10 , 20 15
Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION	<u></u>
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Pr	ovince of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report durin	
nave inspected the components described in this owner's report darm	- ·
$\frac{Y-27-15}{10}$ to $\frac{160-17-15}{10}$, and state that to the best of my knowledge and belief, the Owner has performed emeasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	xaminations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or proparising from or connected with this inspection.	and corrective measures described perty damage or a loss of any kind
JF Swan / Or one F Swan Commissions NB11473-NC1524, N-1	
JF Swan Commissions NB11473-NC1524, N-1 Inspector's Signature National Board, State, Province, and Endorsements	
Date 10-14, 20_15	

l. OwnerI	Duke Energy Carolinas, LLC			Date 2/19/2015	The second secon		
	526 South Church Street, Charlott	e, NC, 28201		— Sheet 1 of 2	* }		
2. Plant	McGuire Nuclear Station Nam			Unit 2	_		
	12700 Hagers Ferry Road Add			1946628-13 Work Order # (or Repa	ir/Renlacemen	t Organization P.O. No., Jo	oh No. etc.)
3. Work Performe	ed by <u>Duke Energy Carolinas</u> ,			Type Code Symbol :	 (3. X		
	526 South Church Street Add	<u>, Charlotte, NC 28201-100</u> ress	6	Authorization Expiration	3.7		And the Manager of Control
4. Identification o	of System CA - Auxiliary Feedwa	ter					
	e Construction Code ASME III e Edition of Section XI used for Re	epair/Replacement Activity		lition, Summer and Winter te 2008 Addenda	Add	denda, N/A	Code Case
(c) Applicable	e Section XI Code Case(s) N/A						
6. Identification o	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	<u>No</u>
the party of the company of the comp							
		A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
	A COMMITTED TO THE CONTROL OF THE CO						
	The constitution of the co						
7. Description of	Work Add New Compo	nent/Part/Appurtenance/W	<u>'eld</u>		-		
Additional Descri	ription Added hanger 21	MCA-CA-5565 per EC103	963.				
8. Tests Conducte oF Description	ed: Hydrostatic Pneumatic	c Nominal Operation	on Pressure Ex	empt M Other Pres	sure	PSI Test Tem	np.

9. Remarks (Should Include the Following Information	nation, as Applicable):	•	·	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	nominal) System	n Class: ASME Class 3		
Weld Isometric Drawing No(s).: N/A				
Flow Diagram No(s).:	N/A	The state of the s		
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5565			
Other Applicable Information (e.g., W.O. No	., EC No.) if not included else	where on NIS-2 Form:	EC103963	
	Applicable Man	ufacturer's Data Reports to be a	tached	
I certify that the statements made in the report a		CATE OF COMPLIAN		
Type Code Symbol Stamp N/A		as to the requirements of	THE ASIVE COUC, Section At.	
Certificate of Authorization No. N/A			Expiration Date	I/A
Signed FL Grass, Quality Assurance Technical	Specialist	In Hener	Date Februa	ary 19 20 15
Owner or Owner's Design	.,			,,
<u> </u>				
		OF INSERVICE INSE	· · · · · · · · · · · · · · · · · · ·	
I, the undersigned, holding a valid commission i	ssued by the National Board o	f Boiler and Pressure Ve	ssel Inspectors and the State or Province of	
North Carolina	and employe	d by HSB Global Stand	ards	of
Connecticut	have inspect	ed the components descr	ibed in this Owner's Report during the period	
$\frac{2-2-14}{\text{to }2-23-1}$ measures described in this Owner's Report in ac			belief, the Owner has performed examinations action XI.	and taken corrective
By signing this certificate neither the Inspector r in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	or his employer makes any water linspector nor his employer sl	arranty, expressed or imp hall be liable in any man	olied, concerning the examinations and correctioner for any personal injury or property damage	ive measures described or a loss of any kind
JF Swan lrond . 1	wan	Commissions NB11	473-NC1524, N-1	
Inspector's Signature		National Board, State, Provi		
Date $\left(\frac{2-23}{2}\right)$, 20	<u> </u>			

1. Owner <u>Duk</u>	te Energy Carolinas, LLC			— Date 2/19/2015			
526	South Church Street, Charlotte,	NC, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, I			1946628-14 Work Order # (or Repair	/Replacement	Organization P.O. No., J	oh No. etc.)
3. Work Performed b				Type Code Symbol St	tamp: N/	A	
•	526 South Church Street, C			Authorization Expiration I	5.77	Andrew Commence of the Commenc	
4. Identification of S	ystem CA - Auxiliary Feedwater						
(b) Applicable Ed	onstruction Code ASME III dition of Section XI used for Repa	nir/Replacement Activity		lition, Summer and Winter e 2008 Addenda	Add	lenda, N/A	Code Case
	ection XI Code Case(s) N/A						
6. Identification of C	omponents					Corrected,	ASME Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Stamped (Yes or No)
2MAC-CA-5566	Duke Energy	N/A	N/A	N/A	N/A	Installed	<u>No</u>
The second secon			A STATE OF THE PARTY OF THE PAR				
The state of the s							_
Communication of the state of t							
							1
7. Description of Wo	ork Add New Compone	nt/Part/Appurtenance/We	ld				
Additional Descript	ion Added hanger 2M0	CA-CA-5566 per EC1039)63.				
8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Operation	Pressure Exe	empt V Other Press	sure	PSI Test Ten	np
^o F Description (O	ptional):		 		 -		

9. Remarks (Should Include the Following Information, as Applicable): Component Line Size: 7 System Class. ASME Class 3	Sheet 2	of $\frac{2}{2}$
in (nonmar) System Class: ASME Class 3		
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).: N/A		Antonial () a some part in the forest and processes on the
Support/Restraint Sketch/Drawing No(s).: 2MCA-CA-5566	The second secon	A STATE OF THE PARTY OF THE PAR
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963	and the state of t	
	AND DESCRIPTION OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PA	the sales to the other party and the sales the sales and the sales are a sales
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		
NT/A	DT/A	d Ottomorp is known
Certificate of Authorization No. N/A Expiration Date	te (IN/A	<u> </u>
Signed FL Grass, Quality Assurance Technical Specialist	bruary 19	, 20 15
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	æ	
North Carolina and employed by HSB Global Standards	L	
		of
Connecticut have inspected the components described in this Owner's Report during the per		
(c-2-14) to $(2-23-15)$, and state that to the best of my knowledge and belief, the Owner has performed examination measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ions and taken co	orrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and con in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damarising from or connected with this inspection.	rective measures	s described any kind
JF Swan / Commissions NB11473-NC1524, N-1		
Inspector's Signature National Board, State, Province, and Endorsements		
Date 2-23, 20		

1. Owner <u>Duke I</u>	Energy Carolinas, LLC			-Date 2/19/2015			
526 S	outh Church Street, Charlotte, 1	NC, 28201		Sheet 1 of 2	•	······································	
2. Plant	McGuire Nuclear Station Name			Unit 2	_		
	12700 Hagers Ferry Road, F			1946628-15	ir/P on leasemen	t Organization P.O. No., Jo	
3. Work Performed by	Duke Energy Carolinas, LL Name			Type Code Symbol S	Stamp: N	/A	o No., etc.)
	526 South Church Street, C Address		6	Authorization Expiration	1110 <u>-</u>	/A /A	
4. Identification of Syst	em CA - Auxiliary Feedwater						:
(b) Applicable Editi	on of Section XI used for Repart on XI Code Case(s) N/A	ir/Replacement Activity		dition, Summer and Winter ne 2008 Addenda	Ado	denda, N/A	Code Case
6. Identification of Com	()					<u> </u>	
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
		3					
		A STATE OF THE STA		1			
THE THE PARTY OF THE							
	The second secon						
7. Description of Work	Add New Componer	nt/Part/Appurtenance/W	<u>eld</u>		-		
Additional Description	Added hanger 2MC	A-CA-5567 per EC103	963.				
8. Tests Conducted: H oF Description (Option	£,	Nominal Operatio	n Pressure Ex	empt 🗹 Other 🗀 Pres	sure	PSI Test Tem	р.

Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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	o., EC No.) if not included elsewhere on NIS-2 Form: EC10	03963
	Applicable Manufacturer's Data Reports to be attached	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the AS	ME 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 77 Thank	Date February 19 20 15
Owner or Owner's Desig		, 20
	<u> </u>	
	CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vessel Ins	pectors 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 -	and state that to the best of my knowledge and belief, the coordance with the requirements of the ASME Code, Section X	he Owner has performed examinations and taken corrective
-	·•	•
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, paither the	nor his employer makes any warranty, expressed or implied, co e Inspector nor his employer shall be liable in any manner for a	oncerning the examinations and corrective measures described
arising from of connected with this inspection.	t dispector nor his employer shall be hadre in any manner for t	my possoum mjury or proporty cumage or a rose or any
F		·
JF Swan Provided Inspector's Signature	Commissions NB11473-NC National Board, State, Province, and E	
inspector's Signature /	National Board, State, 110Villee, and E	and continued
Date 2-25, 2	o <u>Z</u> S	

1. Owner	Duke Energy Carolinas, LLC			— Date 2/19/2015		and the same of th	
	526 South Church Street, Charlotte	e, NC, 28201		— Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Nam	ne		Unit 2	•		
	12700 Hagers Ferry Road	Huntersville, NC 28078		1946628-16			
	Addr	ess		Work Order # (or Repair	/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Perform	ned by <u>Duke Energy Carolinas</u> , I Nam			Type Code Symbol S			
	526 South Church Street	Charlotte, NC 28201-1006		Authorization	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	When the second was a second second second second second second second second	*************
	Addr			Expiration 1	Date: N/	A	
4. Identification	of System CA - Auxiliary Feedwa	ter					
	ole Construction Code ASME III ole Edition of Section XI used for Re	pair/Replacement Activity		lition, Summer and Winter e 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicat	ole Section XI Code Case(s) N/A						
6. Identification	of Components_						
Name of Compone		Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-CA-55	Duke Energy	N/A	N/A	N/A	N/A	Installed	<u>No</u>
	And white the second se	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The state of the s			
A AMERICAN	CONTROL AND A STATE OF THE STAT					Year and the second sec	
to a first and and a mornion	The control of the co						
							-
A SECTION OF A SECTION OF SECTION	** ** ** ** ** ** ** ** ** ** ** ** **						
7. Description o	f Work Add New Compor	nent/Part/Appurtenance/We	eld			Δ	
Additional Des	Added hanger 2N	MCA-CA-5568 per EC1039	963.			er benanning gegennen fill fill de deuer met selvet de fige fill blêde en deue edge gewege ge trieb blêde	}
	eted: Hydrostatic Pneumatic			empt Other Press	ure	PSI Test Tem	ip.

9. Remarks (Should Include the Following Infor-	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(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	o., EC No.) if not included elsewhere on NIS-2 Form:	EC103963
	Applicable Manufacturer's Data Reports to be attack	ched
	CERTIFICATE OF COMPLIANC	CE
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the	ne 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 Admin	Date February 19 20 15
Owner or Owner's Design		Date, 20
L		
	CERTIFICATE OF INSERVICE INSPE	CTION
I, the undersigned, holding a valid commission i	issued by the National Board of Boiler and Pressure Vess	
North Carolina	and employed by HSB Global Standard	dsof
Connecticut		ed in this Owner's Report during the period
12-15-14 to 2-23-	and state that to the best of my knowledge and be	elief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in ac	coordance with the requirements of the ASME Code, Sect	
By signing this certificate neither the Inspector r in this Owner's Report. Furthermore, neither the arising from opconnected with this inspection.	nor his employer makes any warranty, expressed or implied in any manne	ed, concerning the examinations and corrective measures described or for any personal injury or property damage or a loss of any kind
JF Swan / erope F. Lew	Commissions NB1147	73-NC1524, N-1
Inspector's Signature	National Board, State, Province	
Date 2-23, 20	0 75	

1. Owner <u>Du</u>	ke Energy Carolinas, LLC			— Date 2/19/2015		And the state of t	
52	6 South Church Street, Charlotte,	NC, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2	 :		
	12700 Hagers Ferry Road, Addres			1946628-17 Work Order # (or Repa	ir/Replacemen	t Organization P.O. No., J	ob No., etc.)
3. Work Performed	by <u>Duke Energy Carolinas, L</u> Name	LC		Type Code Symbol	Stamp: N	/A	
	526 South Church Street, (6	Authorization Expiration	15.7		
4. Identification of S	System CA - Auxiliary Feedwate	T	· · · · · · · · · · · · · · · · · · ·				
• • •	onstruction Code ASME III dition of Section XI used for Rep	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Ado	denda, N/A	Code Cas
(c) Applicable S	ection XI Code Case(s) N/A						
6. Identification of C	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
The state of the s	Company of the first page of the first page of the company of the					, vent & ,	
and the second second second second second second	The first control of the following the first fir						
72- 0 10 11- 3-0 3-0 3-1 section							
	The state of the s						
						1	
7. Description of Wo	ork Add New Compone	ent/Part/Appurtenance/W	eld				
Additional Descrip	tion Added hanger 2M	CA-CA-5569 per EC103	963.				:
8. Tests Conducted:	A STATE OF THE PARTY AND A STATE OF THE PARTY OF THE PART	Nominal Operation	n Pressure \(\sum_{\text{Ex}} \)	empt Other Pres	ssure	PSI Test Ten	ıp
^o F Description (C	optional):	 					

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(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	o., EC No.) if not included elsewhere on NIS-2 Form:	C103963
·	Applicable Manufacturer's Data Reports to be attached	ed
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	re 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 78 Hass	Date February 19 20 15
Owner or Owner's Desig		
	CERTIFICATE OF INSERVICE INSPEC	TION
I the undersigned, holding a valid commission i	issued by the National Board of Boiler and Pressure Vessel	
North Carolina	and employed by HSB Global Standards	of
Connecticut		d in this Owner's Report during the period
Lo - 2 - 14 to 2 - 23 - measures described in this Owner's Report in ac	•	ef, the Owner has performed examinations and taken corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither tharising from of connected with this inspection.	nor his employer makes any warranty, expressed or implied e Inspector nor his employer shall be liable in any manner	d, concerning the examinations and corrective measures described for any personal injury or property damage or a loss of any kind
JF Swan Jerona J- Su	Commissions NB11473	3-NC1524, N-1
Inspector's Signature	National Board, State, Province,	
Date 2-23, 2		·

1. Owner _	Duke E	nergy Carolinas, LLC			— Date 2/19/2015			
	526 So	uth Church Street, Charlotte, N	C, 28201		- Sheet 1 of 2		'	
2. Plant		McGuire Nuclear Station Name			Unit <u>2</u>			
		12700 Hagers Ferry Road, Hu	intersville, NC 28078		1946628-18			
		Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Perf	formed by	<u>Duke Energy Carolinas, LLC</u> Name			Type Code Symbol St			
		526 South Church Street Ch	arlotte NC 28201-1006		Authorization	-	The same of the sa	The same of the same of
		526 South Church Street, Charlotte, NC 28201-1006 Address			Expiration I	Date: N/	<u>A</u>	-
4. Identificat	ion of Syste	m CA - Auxiliary Feedwater						
(b) Appli	icable Editio	ruction Code ASME III on of Section XI used for Repair on XI Code Case(s) N/A	7/Replacement Activity		ition, Summer and Winter e 2008 Addenda	Add	lenda, N/A	Code Case
		*, -			·			
6. Identificat	ion of Com	oonents					Corrected,	ASME Code
Nam Comp		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Stamped (Yes or No)
2MAC-CA-	5570	Duke Energy	N/A	N/A	N/A	N/A	Installed	<u>No</u>
	armining commissions and the commission of	The state of the second						
		and the second plan grame consequences of the						
		THE RESIDENCE AND ADDRESS OF THE PROPERTY OF T						
		Control of the Contro					remarks,	
THE STATE OF STREET		y panta i maganta ka'di a gunada ana ur umum umum danakaman magang medikelah er ayang gama usahing 						
7. Descriptio	n of Work	Add New Component	/Part/Appurtenance/We	<u>eld</u>				
Additional 1	Description	Added hanger 2MCA	A-CA-5570 per EC1039	063.				
8. Tests Cond	_		Nominal Operation	n Pressure Exe	mpt Other Press	ure	PSI Test Tem	р.
^o F Descrip	ption (Optio	nal): [

9. Remarks (Should Include the Following Information, as Applicable): Component Line Size: 2 in (nominal) System Class: ASME Class 3	Sheet $\frac{2}{}$ of $\frac{2}{}$
in. (holimal) System class. Advite class 3	
	The state of the s
Q.V.T.	The state of the s
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963	m delen de amongo proporto en la desta de la laconida de la seguira de l
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 Than Date February	ruary 19 20 15
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	od
<u>ce - 2 - 14</u> to <u>2 - 23 - 15</u> , and state that to the best of my knowledge and belief, the Owner has performed examination measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ns and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corre in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property dama arising from or connected with this inspection.	ective measures described age or a loss of any kind
JF Swan Prome / Man Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements Date 20 20	

1. Owner _	Duke E	nergy Carolinas, LLC			— Date 2/16/2015	terational manages of trickly and players and appearing any or the paragraph	and manufactures former and engage-registers) -enthances of	
-	526 So	uth Church Street, Charlotte	NC, 28201			2		
2. Plant		McGuire Nuclear Station Name	;		Unit 2			
		12700 Hagers Ferry Road,			1946628-21]
		Addre	SS		Work Order #	(or Repair/Replacement	nt Organization P.O. No., J	ob No., etc.)
3. Work Perfe	ormed by	<u>Duke Energy Carolinas, I</u> Name			Type Code Sy	moor stamp.	I/A	
		526 South Church Street,	Charlotte, NC 28201-100	6	Autho	nization No	[/A	******
		Addre			Exp	iration Date: N	//A	
4. Identificati	ion of Syste	m CA - Auxiliary Feedwate	er			and the second of the second o		
(b) Applie	cable Editio	ruction Code ASME III n of Section XI used for Rep	pair/Replacement Activity		dition, <u>Summer and Wine 2008 Addenda</u>	inter Ad	denda, N/A	Code Case
(c) Applic	cable Section	n XI Code Case(s) N/A		 			***************************************	
6. Identificati	on of Comp	onents						
Name Compo		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	i	Duke Energy	N/A	73	N/A	1982	Installed	Yes
and the second of the second	er trace and a section	ing and Malan relation above the first and a second proper to relation and property of a first and a second property of the second proper						
en en e e e en entre entre entre en entre en entre en entre en entre en	e to person to the contract of	gar in 1986 Maria - Angal y Anna y amandana and y anam and a mana yang capit in the first case a single 				A DESCRIPTION OF THE PROPERTY	!	
1	1							
		The state of the s			The second secon		4	
	an an analysis of	and the second s	Committee of the commit			And the second s	31	
7. Description	n of Work	Add New Compon	ent/Part/Appurtenance/W	eld				
Additional I	Description	Added piping per	EC103963.					
8. Tests Cond			<u> </u>		empt C Other C	Pressure *	PSI Test Ten	np. 59.9
^o F Descrip	tion (Optio	nal): tests performed per pr	ocedure MP/0/A/7650/07	6 (* test parameters ar	<u>e within operational de</u>	sign per operation	ns)	

9. Remarks (Should Include the Following Information, as Applicable):	Sheet 2	of <u>2</u>
Component Line Size: 2 in. (nominal) System Class: ASME Class 3		
Weld Isometric Drawing No(s).: MCFI-2CA62 & 66	words a section from a section of an abstraction above transcription and appropriate production and a section of the designation of the section of the secti	id Nederland (in demokratika in reservativa ja jaga ay nagasya jaga ay
Flow Diagram No(s).: MCFD-2592-01.01	- A Sign & Committee Commi	ka a kada sa sa - Africa sa Africa sa Africa sa sa ka pangang samplenga bagasang pang panda
Support/Restraint Sketch/Drawing No(s).: N/A	Water and trades at the bit August Manager and an apolice a flow square	
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form: EC103963	And the state of t	100 of No. 2000 control (Security Security)
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	and a financial transport and the state of the	
Certificate of Authorization No. N/A Expiration	ion Date N/A	-
Signed FL Grass, Quality Assurance Technical Specialist	ate February 16	20 15
Owner or Owner's Designee, Title	atc	
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 Prov	rince of	meren, andres mereng
North Carolina and employed by HSB Global Standards		of
Connecticut have inspected the components described in this Owner's Report during	the period	•
<u>6-24-14</u> to <u>3-16-15</u> , and state that to the best of my knowledge and belief, the Owner has performed exameasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ıminations and taken	corrective
measures described in this Owner's Report in accordance with the requirements of the ASML Code, Section At.		
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations a	nd corrective measur	res described
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or proper arising from or connected with this inspection.	ty damage or a loss of	or any kind
JF Swan / Promo / Lwan Commissions NB11473-NC1524, N-1		}
Inspector's Signature National Board, State, Province, and Endorsements		
Date 2-16, 20/5		
Date :		

1. Owner _	Duke E	nergy Carolinas, LLC			Date 10/9/2015	*** * *** *** * * * * * * * * * * * *		
	526 So	uth Church Street, Charlott Address	e, NC, 28201		Sheet $\frac{1}{1}$ of $\frac{2}{1}$)		
2. Plant		McGuire Nuclear Station			Unit 2			
		12700 Hagers Ferry Road	d, Huntersville, NC 28078		1992005-01	s. He she the the test dust while a death prime to the	inflammand a special and an application received the statement of the second of the se	
		Add			Work Order # (or Rep	air/Replacemen	t Organization P.O. No., Jo	ob No., etc.)
3. Work Peri	formed by	Duke Energy Carolinas, Nan			Type Code Symbol	· .		se e april a a parage .
		526 South Church Street, Charlotte, NC 28201-1006 Address				Authorization No.: N/A Expiration Date: N/A		
4. Identificat	ion of Syste	m NC - Reactor Coolant	and an and the or a land interconnection and the second and and an above superconnections for promote a more	The second secon	na antikasing managang pang pang pang dia dia dia katalah katalah dia katalah dia pang managan katalah baha bin	e a servicio di colta e della considerazioni di	a de estado en como estado de estado en entre en estado en estado en entre en entre en entre en entre entre en	The state of the s
(b) Appli	icable Editio	ruction Code ASME III on of Section XI used for R	epair/Replacement Activity	19 <u>71</u> E	dition, Summer and Winter the 2008 Addenda	Ado	denda, N/A	Code Case
• • • •		on XI Code Case(s) N/A						
6. Identificat	ion of Comp	oonents T					1	Transport
Nam Comp		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
		,		1				
		The second secon	A 100 Mark 1				` 	—
				1				
7. Descriptio	n of Work	Replaced Compo	nent/Part/Appurtenance					
Additional l	Description	Replaced bolting	g material in manway.	And the second s		g and a later to go to be good and the control of the large to large to	a page 1 desperante page and the 1 mark of 2 million of the 2 million of t	
8. Tests Cond	_	and all the second of the second contract of				ssure 2250	PSI Test Tem	ip. <u>558.1</u>
°F Descri	ption (Optio	nal): Test performed per r	procedure MP/0/A/7650/07	6 on work order task	02177930 <u>-01.</u>			4 1000

9. Remarks (Should Include the Following Infor	rmation, as Applicable):			Sheet 2	of <u>2</u>
Component Line Size: N/A in.	(nominal) Sy	stem Class: ASME Class 1			
Weld Isometric Drawing No(s).: MCFI-2N	NC53	ا الله الله الله الله الله الله الله ال	elga, irai iyasi isi, ii isasaya Pa Marki da dada na dara tirai isi, ii isasa da ka da ii a Marka da da ka kupa I	a. Anderson, apalan bereit in stranspropriate states saves articles, per state b.m. in second in section of a school	PP 4 - 1 colors = 0 col y that posted the a consideration makes the
Flow Diagram No(s).:	MCFD-2553-02.00	Marky Victoria Semandary voc. compressed with transference and the Winds and Marky and Assessment Assessment Williams V	that is a party of the second	THE PERSON OF STREET, MAKE SHE AT STREET, JOHN SHE WAS AS AS AS	THE REST OF STREET, THE PERSON OF THE BOOK
Support/Restraint Sketch/Drawing No(s).:	N/A	March Color St. (1975) - Color S	advision and substitute a majorial of the color demand also rapid and applicable. He defines the before any	And Child Co. Street Commission and	mentals, for the . It is because purple of the part of conditions and produces and
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included	elsewhere on NIS-2 Form:		The second secon	AMERICA AND AND AND AND AND AND AND AND AND AN
	Applicable	Manufacturer's Data Reports to be attac	ched		
		IFICATE OF COMPLIANC			
I certify that the statements made in the report a	are correct and that this con-	forms to the requirements of the	ne ASME Code, Section XI.		
Type Code Symbol Stamp N/A				an akarika 90 km s. asas karar a tamunyakan k. asa k. a a asa k. asa	A STATE OF THE STA
					F
Certificate of Authorization No. N/A		<u> </u>	E	expiration Date N/A	<u>-</u>
Signed FL Grass, Quality Assurance Technical	Specialist	FS Mus -	and a second control of the second of the se	Date October 9	20 15
Owner or Owner's Desig		100			,
					· · · · · · · · · · · · · · · · · · ·
Taka um damianad haldina a unlidii		TE OF INSERVICE INSPE		an Dravinas af	
I, the undersigned, holding a valid commission North Carolina		loyed by HSB Global Standar		or Province of	
Connecticut					of
<u> </u>		pected the components describ			
9-29-15 to 10-12- measures described in this Owner's Report in a	, and state that to the	e best of my knowledge and be	elief, the Owner has perform	ed examinations and taker	n corrective
measures described in this Owner's Report in a	scordance with the requirem	nents of the ASML Code, See	HOII AI.		
By signing this certificate neither the Inspector	nor his employer makes an	y warranty, expressed or impli	ed, concerning the examina	tions and corrective measu	res described
in this Owner's Report. Furthermore, neither the arising from for connected with this inspection.	le Inspector nor his employe	er shall be liable in any manne	r for any personal injury or	property damage or a loss	of any kind
		•			
JF Swan Prome - fura	<u> </u>	Commissions NB114			
Inspector's Signature (National Board, State, Province	e, and Endorsements		
Date 18-12 2	0.75				
Date Communication, 2	,0.4.				

1. Owner	Duke Energy Carolinas, LLC			— Date 2/16/2015	ting all the constitution are as as as a part of the second		
_	526 South Church Street, Charlott	te, NC, 28201		Sheet 1 of 2			
2. Plant	McGuire Nuclear Station			Unit 2			
	12700 Hagers Ferry Roa	d, Huntersville, NC 28078		2032207-07	P		
	Add	ress		Work Order # (or Repa	ir/Replacemen	t Organization P.O. No., J	ob No., etc.)
3. Work Perform	ned by <u>Duke Energy Carolinas</u> , Nar			Type Code Symbol S	- (a.r	make the property of the same of the property of the same the same two to the	The state of the s
	526 South Church Street	c, Charlotte, NC 28201-1006	; •	Authorization	,	The second secon	trac constitute constitut
		lress	·····	Expiration	Date: N	/A	
4. Identification	of System RN - Nuclear Service	Water		entre de la company de la comp			
	ole Construction Code ASME III ole Edition of Section XI used for R	epair/Replacement Activity		lition, Summer and Winter e 2008 Addenda	Add	denda, <u>N/A</u>	Code Case
(c) Applicat	ole Section XI Code Case(s) N/A						
6. Identification	of Components					_	
Name of Compone		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
	Company of the property of the	Secretary and provided by the control of the contro	At a second state and a second state of the se			warman,	
	The second part time and the second particular and	The same of the sa		1		· · · · · · · · · · · · · · · · · · ·	
	The state of the rest of the state of the st			The state of the s		27	
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	The state of the s	The state of the s		And the second s		**	
7. Description of		nent/Part/Appurtenance				<u></u>	
Additional De	Replaced valve	2RN1137 and it's bolting ma	aterial.		y		
	eted: Hydrostatic Pneumation (Optional): Test performed per			empt Other Pres	sure	PSI Test Ten	np
-r Description	on (Optional): <u>Test performed per</u>	510000dd C 191170/71/7700/045	<u></u>				

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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	and the property of the control of the desired of the control of t
Support/Restraint Sketch/Drawing No(s).: N/A	n vita da para nama da da da mana y manda nama na ay ay ay ay and any ana ay ang na gara na na na na na na nam
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	
N. 7./ A	NT/A
Certificate of Authorization No. N/A Expiration	n Date N/A
Signed FL Grass, Quality Assurance Technical Specialist Albau Dat	te February 16 , 20 15
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 Proving	noa of
North Carolina and employed by HSB Global Standards	The continues to the continues of the continues of the continues and the continues of the c
	of
Connecticut have inspected the components described in this Owner's Report during the	-
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ninations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property arising from or connected with this inspection.	d corrective measures described y damage or a loss of any kind
JF Swan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date 2-18, 2015	
Date 2-18, 2015	

1. Owner <u>Duke 1</u>	Energy Carolinas, LLC			Date 10/20/2015			
526 S	outh Church Street, Charlotte, N	NC, 28201		- Sheet 1 of 2	_		
2. Plant	McGuire Nuclear Station Name			Unit 2			
•	12700 Hagers Ferry Road, H	untersville, NC 28078		2097337-38			
	Address			Work Order # (or Repair/	Replacemen	t Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	Duke Energy Carolinas, LL Name	<u>C</u>		Type Code Symbol St	amp: N	/A	
	506 9 4 61 4 9 61	1 310 30001 100		Authorization	No.: No.:	<u>/A</u>	
	526 South Church Street, Cl Address	nariotte, NC 28201-1006	<u> </u>	Expiration I	3.7		
4. Identification of Syst	em CA - Auxiliary Feedwater	& RN - Nuclear Service	Water				
	struction Code ASME III on of Section XI used for Repa	ir/Replacement Activity		lition, Summer and Winter e 2008 Addenda	Add	denda, N/A	Code Case
(c) Applicable Secti	on XI Code Case(s) N/A						
6. Identification of Com	ponents	· - · · · · · · · · · · · · · · · · · · ·					
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
RN System	Duke Energy	N/A	60	N/A	1982	Installed	Yes
	<u> </u>	 			-		
		-	 				
L	<u> </u>	<u> </u>		<u></u>			
7. Description of Work	Add New Componen	t/Part/Appurtenance/We	<u>eld</u>				
Additional Description	Added piping per E	C109072					
8. Tests Conducted: H oF Description (Option	lydrostatic Pneumatic onal): Test performed per proc	_		empt Other Pressi	ire <u>40</u>	PSI Test Tem	p. <u>80</u>

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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	on 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 , 20 15
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 S	State or Province of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Re	
$\frac{2-18-15}{10}$ to $\frac{10-20-15}{10}$, and state that to the best of my knowledge and belief, the Owner has permeasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	erformed examinations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the exact in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injurarising from or connected with this inspection.	
JF Swan Lovore T. Jovan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date	

1. Owner Duke Energy Carolinas, LLC			Date 10/10/2015	Date 10/10/2015					
52	26 South Church Street, Charlotte, Address	outh Church Street, Charlotte, NC, 28201 Address				Sheet $\frac{1}{2}$ of $\frac{2}{2}$			
2. Plant	McGuire Nuclear Station Name			Unit 2					
	12700 Hagers Ferry Road, I	Huntersville, NC 28078		2097343-11					
	Address	S		Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	ob No., etc.)		
3. Work Performed	by <u>Duke Energy Carolinas, LI</u> Name	LC		Type Code Symbol	Stamp: N/	'A			
	526 S. d. Charlet St. 4 C	T - 1.4 NG 20201 100		Authorization	on No.: N	<u>'A</u>			
	526 South Church Street, C Address		0	Expiration	Date: N/	'A			
4. Identification of S	System NI - Safety Injection					. 			
(b) Applicable E	Construction Code ASME III Edition of Section XI used for Representation XI Code Case(s) N/A	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case		
()	*,								
6. Identification of C	Components				1	Corrected,	ASME Code		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Stamped (Yes or No)		
2NI888	Flowserve	70BTQ	2831	UTC# 1993253	2012	Installed	Yes		
7. Description of W	ork Add New Compone	nt/Part/Appurtenance/W	eld						
Additional Descrip	otion Added valve 2NI88	88 per EC110201.							
8. Tests Conducted: oF Description (C	Hydrostatic Pneumatic Pneumatic Pptional): <u>Test performed per pro</u>			tempt Other Pres	sure 1500	PSI Test Tem	np. <u>86</u>		

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 2in. (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.	
True Co. 1 Co. 1 100	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	xpiration Date N/A
	0.4
Signed FL Grass, Quality Assurance Technical Specialist Owner or Owner's Designee, Title	Date October 10 , 20 15
Owner of 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 of	r Province of
North Carolina and employed by HSB Global Standards	•
	of
nave inspected the components described in this Owner's Report di	- -
3-17-15 to $6-14-15$, and state that to the best of my knowledge and belief, the Owner has performed measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ed examinations and taken corrective
ineasures 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 examinati	ions 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 p	property damage or a loss of any kind
arising from of connected with this inspection.	
JF Swan OT AM Q F Market Commissions NB11473-NC1524, N-1	
JF Swan Commissions NB11473-NC1524, N-1 Inspector's Signature National Board, State, Province, and Endorsements	
Date $\sqrt{\frac{C}{20}}$, 20 $\sqrt{\frac{C}{20}}$	

		ERS' DATA REPORT FOR isions of the ASME Code		
				Pg. 1 of _2_
1. Manufactured and certifi	ed by Flowserve Corporation	on, 1900 South Saunders Stree	t, Raleigh, N.C. 27603	
2. Manufactured for <u>Duke</u>	Energy Carolinas, LLC, PC	Box 37925, Charlotte, NC 28	3237	·
	7	East Pickens Hwy, Seneca, S	C 29672	
		Drawing. <u>W9925270</u>		CRN N/A
5. ASME Code, Section III,	Division 1: 1986	NO ADDENDA	1. Idasei	N/A (Code Case no.)
6. Pump or valve VALVE	Nominal Inlet size	2.0 Outlet size	2.0	
	Bonnet SA182-316,	Disk NOREM 02A Bol	ting N/A	
(a) Cert, Holdei's Serial No.	(b) Nat'i Board No.	(c) Body/Casing Sorial No	(d) Bonnst/Cover Serial No.	(s) Disk Serial No.
70BTO	2831	L8766-1	32981-4	08C-056 -7 . 8
71BTQ	2832 .	L8766-2 —	150497-19	08C-056 - 9 , 10
				
				

^{*} Supplemental information in the form of lists, statches, or drawings may be used provided (1) size is $8\frac{1}{2}$ 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.

	PORINI NPV-1 (Back)	-g. 2 01			
		Certifica	nte Holder's Seri	a) No. 70B	TQ - 71BTQ
8. Design canditions 2748 pressur	e) (tamperatura)	r valve pressurė ciaes	1888 🗸		
9. Cold working pressure4531	psi et 100°F				
0. Hydrostatic test 6800	psi. Disk differential test pressure _	5000			psi
1. Remarks:	S.O. 65867-03	······································	·		
GASKET RETAINER MATL'S.	A35 (-CF8M, HEAT NO: M9251. S/N; 6.4)				
	CERTIFICATION OF	DESIGN			
Design Specification certified by _		P.E.			PE-31002-E
Design Report certified by	Ronald S. Farrell	P.E.	State NC	_ Reg. по	028656
We certify that the statements ma ASME Code, Section III, Division 1 N Certificate of Authorization No.		Expires	ms to the rules	for constru	ction of the
	•				
Date 2/27/20/2/ Name _	(N Cartificate Holder)	Signed	Tauthorizadri	presentative	
•	CERTIFICATE OF INS	SPECTION			
I, the undersigned, holding a valid of NORTH CAROLINA and employe	commission issued by the National Board d byHSB, CT	of Boiler and Pressura Ve	ssel inspectors a	and the State	or Province
2 27/17 at	HARTFORD, CT his distant that to the best of my knowledge as	eve inspected the pump, o	or valve, describ	ed in this Da	a.Report on
In accordance with the ASME Code		in Deliet, the Certificate Ac	nost has consul	rereor mus but	np, or valve,
•	inspector nor his employer makes any wi	• • •	-	•	,
in this Data Report, Furthermore, no or a loss of any kind arising from o	either the inspector nor his employer shall it	be liable in any manner fo	r any personal is	njury of prop	inty damage
•	N	NSI 310	70AN/ A	IC1549 and state of pro-	, 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer <u>Yes</u> **Duke Energy** N/A 63 N/A 1982 Installed ND System Yes Flowserve 37BPV 2993 UTC# 2016572 2013 Installed 2ND126 7. Description of Work Add New Component/Part/Appurtenance/Weld Additional Description Added piping and valve 2ND126 per EC110202. Test Temp. 86 Pressure 199 PSI 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt | Other [Description (Optional): Test performed per procedure MP/0/A/7650/076.

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	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 else	where on NIS-2 Form: EC110202
Applicable Man	sfacturer's Data Reports to be attached
CERTIFIC	CATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conform	s 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	Thus Date October 14, 20 15
	
CERTIFICATE	OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board o	
North Carolina and employe	l by HSB Global Standards of
Connecticut have inspect	d the components described in this Owner's Report during the period
$\frac{10-3-15}{10}$ to $\frac{10-15-15}{10}$, and state that to the be measures described in this Owner's Report in accordance with the requirement	t of my knowledge and belief, the Owner has performed examinations and taken corrective s of the ASME Code, Section XI.
	rranty, expressed or implied, concerning the examinations and corrective measures described all be liable in any manner for any personal injury or property damage or a loss of any kind
IF Swan I crome to Swan	Commissions NB11473-NC1524, N-1
Inspector's Signature	National Board, State, Province, and Endorsements
Date 15 -15 , 20 15	

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	hv Flowserve Corporat	tion, 1900 South Sau	nders Street, F	Raleigh, N.C. 27603	/
			(name a	nd address of N C	ortificate Hoider)	
2	2. Manufactured for <u>Duke E</u>	Energy Carolinas, LLC, P.O. Bo	ox 37925, Charlotte, l	N.C. 28237		·
			•	idoress of Purchas	•	•
3	I. Location of installation C	Oconee Nuclear Station, 155 Ea	st Pickens Highway,	Seneca, S.C.,	29672	
	i Madal Na Gadaa Na ay T	Type 800 SW GATE / Dr	•		. c -	GRN N/A
•	Model No., Senes No., or i	ypa <u>occan citiz</u> or	awing	nev.		CHN 10/A
5	5. ASME Code, Section III, Di	vision 1 1986 /		DENDA	1	. N/A
	•	(edition)	[Addenida (ii app	olicable) (date))	(class)	(Code Case no.)
6	3. Pump or valve VALVE	Nominal inlet size	2.00" / 0	utlet size	2.00"	•
•						
7	7. Material (a) valve Body SA351-	CF8M Bonnet SA479-316	Disk SA564-XM13	-1100	N/A	
	(b) pump Casing	Cover	Boiting	Trov Bolung .	1071	
						
	(1) Certificate	(b) Nation al	(c) Body/Casing		(d) Bonnet/Cover	(e) Disk
	Holder's	Board	Šeria i		Serial	Serial
	Serial No.	No.	' Na.		Na.	No.
2616572	(37BVP)	2993	P3491-16 /		150717-128	* SEE REMARKS
2017000	38BVP	2994	P3491-17		150717-129 /	• SEE REMARKS
2017021	39BVP	2995	P3491-18	<u> </u>	150717-130 /	SEE REMARKS
_					· · · · · · · · · · · · · · · · · · ·	
			·			
						
	 					
_			· · · · · · · · · · · · · · · · · · ·			
_						
	· · · · · · · · · · · · · · · · · · ·					
						
_						
_						·
_						
_						
						
_						
_	······································					
. –	 ,	 ,	<u>,</u>			
· -	····	· · · · · · · · · · · · · · · · · · ·				
_	· · · · · · · · · · · · · · · · · · ·					,
		 .				···

[&]quot;Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8½ × 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.

* CORRECTED COPY 5/15/2013

FORM NPV-1 (Back — Pg. 2 of 2

				ď	Certificate Holder's Serial No. 37BVP - 39BVP
8.	Design conditions	1169 psig	680 F <	or valve pressure cla	800
9.	Cold working pressure	1920 psig	-		
10.	Hydrostatic test3	000 psig . Dis	k differential test pressure	2200 psig	
11.	Remarks		S.O. 100680-001		
	*DISC - 37BVP/MALE	- MATL': SA564-630 : 32520-14 FEMALE: 2 : 25520-34 FEMALE: 2	3480-1-4); +38BVP/MALE:	2, SERIAL NO: 1(37 32520-2, FÉMALE: 23	BVP), 2(38BVP), 3(39BVP)
					
			CERTIFICATION	OF DESIGN	
ם	esign Specification certi	fled byI	loyd .A. Bensinger		P.E. State PA Reg. no. 31002-E
,	esign Report certified by		Richard J. Gradle		P.E. State NC Reg. no. 20154
L					
	e certify that the state		CERTIFICATE OF		conforms to the rules for construction of the
	Certificate of Authoriza		N-1562	Expires	11-26-2015
1			FLOWSERVE CORPORA		(gulhanzed representation)
L			(if Califford (in Calif		
			CERTIFICATE OF	INSPECTION	· · · · · · · · · · · · · · · · · · ·
1,		HSB		at Board of Boiler and	d Pressure Vessel Inspectors and employed by
of	Hartford, Con				pump, or valve, described in this Data Report on
<u></u>	accordance with the AS			e and belief, the Certif	ficate Holder has constructed this pump, or valve,
				iv warrantv. expressed	or implied, concerning the component described
					tanner for any personal injury of property damage
or	a loss of any kind arisin	g from or connected	with this inspection.		
D.	ale 5/15/16	Signed Mu	W Dust	Commission	NB136/70~

TIBIA81

Facility : MC

Warehouse : 2

Mtl Rqst : 0337,8573 Reference : WO 02097344

Responsible: E. HAYES JR

Department: 11300

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

Deliver To : On Site Delivery

ISSUE TICKET

PRINTED 04/08/2015.

PAGE: 1

Cmp Fac GID OU Process Project DUK MC DK MC02 NFUKUGN M0111200C

Activity ID Account Sub Acct M0110202

0107000

Reference

Percent 100.000000

03

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

0000459171 1 A D 07 021 002

A D 07 021 002 1 1 EAVALVE, 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

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. OwnerDuke I	Energy Carolinas, LLC	. <u> </u>		— Date 10/14/2015			
526 S	outh Church Street, Charlotte, N	C, 28201					
2. Plant	McGuire Nuclear Station Name			Unit <u>2</u>		•	
	12700 Hagers Ferry Road, Hi	intersville, NC 28078		2097344-18			
	Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC			Type Code Symbol St	amp: N/	'A	
	526 Court Church Street Ch	NC 20201 1006		Authorization	No.: <u>N/</u>	'A	
•	526 South Church Street, Ch Address	arioue, NC 28201-1006		Expiration D	ate: N/	'A	
4. Identification of Syst	em ND - Residual Heat Remov	al					
5. (a) Applicable Cons (b) Applicable Editi	on of Section XI used for Repair on XI Code Case(s) N/A			tion, Summer and Winter 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
6. Identification of Com							
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	Installed	Yes
2ND126	Flowserve	37BPV	2993	UTC# 2016572	2013	Installed	Yes
							<u> </u>
7. Description of Work	Add New Component	/Part/Appurtenance/Wel	l <u>d</u>				
Additional Description	Added piping and va	lve 2ND126 per EC110	202.				
8. Tests Conducted: H oF Description (Option	ydrostatic Pneumatic onal): Test performed per proces	Nominal Operation edure MP/0/A/7650/076		npt Other Pressu	re 510	PSI Test Tem	p. <u>130</u>

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 2in. (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: EC1	10202
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 AS	ME Code, Section XI.
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	Expiration Date N/A
A.D.V	
Signed FL Grass, Quality Assurance Technical Specialist Owner or Owner's Designee, Title	Date October 11 , 20 15
Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Ins	
and employed by	of
Connecticut have inspected the components described in	·
$\frac{3-2-15}{10-15-15}$ to $\frac{10-15-15}{10-15}$, and state that to the best of my knowledge and belief,	he Owner has performed examinations and taken corrective
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section >	ıl.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, co	oncerning 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 of connected with this inspection.	
JF Swan 10 7 me f. Juan Commissions NB11473-NG	71524 N-1
Inspector's Signature Commissions NB11473-NG National Board, State, Province, and I	
Date /0 - 15 , 20 15	

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

==					, 9.707
1	. Manufactured and certified by	Flowserve Corporatio	n, 1900 South Saunders Stree	t, Raleigh, N.C. 27603 <	
2	2. Manufactured for Duke Ene	rgy Carolinas, LLC, P.O. Box	37925, Charlotte, N.C. 2823	7	,
		,	(name and address of Pur	chaser)	
3	Location of installation Oco	nee Nuclear Station, 155 East	Pickens Highway, Seneca, S.	C., 29672	
4	i. Model No., Series No., or Typs	800 SW GATE / Draw	•		CRN N/A
	i. ASME Code, Section III, Divisi	on 1 1986 /	NO ADDENDA	1	N/A
-	. Admic Code, decilori ili, Divisi	(edition)	[Addenida (if applicable) (data)]	(class)	(Code Care no.)
e	B. Pump or valve VALVE	Nominal inlet size	2.00" Outlet size	2.00"	
7	7. Material				
	(a) valve Body SA351-CF	8M Bonnet SA479-316	Disk SA564-XM13-1100 Bolti	ng N/A	
	(b) pump Casing	Cover	Bolting	•	-
	(E)	(p)	(c)	(d)	(e)
	Certificate Holder's	National Board	Body/Casing Serial	Bonnet/Cover Serlal	Disk Serial
	Serial No.	No.	No.	No.	No.
6572	(37BVP)	2993	P3491-16/	150717-128	* SEE REMARK
17020	38BVP	2994	P3491-17	150717-129	* SEE REMARK
7021	39BVP /	2995	P3491-18	150717-130 /	* SEE REMARKS
					
					
					
					
_					-
-					•
سمب					
_					
					
_			·		
_					·
-					
` -		**************************************			
·					
_					

(07/10)

^{*}Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 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.

* CORRECTED COPY 5/15/2013

FORM NPV-1 (Back — Pg. 2 of _____)

			Certif	icate Holder's Serial No. 3	7BVP - 39BVP
8.	Design conditions 1169 psig	680 F or v.	alve pressure class _	800	
9.	Cold working pressure 1920 ps	ig			
10.	Hydrostatic test 3000 psig	Disk differential test pressure2	200 psig		*
11.	Remarks	S.O. 100680-001			
	GASKET RETAINER - MATL': SAS *DISC - 37BVP/MALE: 32520-1/FEM *39BVP/MALE: 25520-3/FEM	ALE: 23480-1-4); +38BVP/(MALE: 3252			
	· · · · · · · · · · · · · · · · · · ·	CERTIFICATION OF D	ESIGN		
_	esign Specification certified by	Floyd .A. Bensinger	þ	E. State PA Reg. r	31002-E
	esign Report certified by	Richard J. Gradle		E State NC Reg. r	
_					
		CERTIFICATE OF COMP	LIANCE		
,	/e certify that the statements made in SME Code, Section III, Division 1.	n this report are correct and that this	pump or valve cor	nforms to the rules for con	nstruction of the
	Certificate of Authorization No.	N-1562	Expires	11-26-2015	
٥	ate <u>5/15/2017</u> Name	FLOWSERVE CORPORATION	N Signed	(authorized repression	
		CERTIFICATE OF INSP	ECTION		
1,	the undersigned, holding a valid co	nmission issued by the National Bo	ard of Boiler and Pre	essure Vessel Inspectors a	and employed by
o in	Hartford, Connecticut Hartford, Connecticut and stale accordance with the ASME Code, Sect	e that to the best of my knowledge and		p, or valve, described in thi Holder has constructed this	
į ir	by signing this certificate neither the ins to this Data Report. Furthermore, neither a loss of any kind arising from or con-	the inspector nor his employer shall b			
	ate 5/5/16 Signed //	(Authorized Nuclear Inspector)	mmission	INSIGNAL Board Number and Ends	rsement)

TIBIA81

Facility : MC

Warehouse : 2

Mt1 Rqst : 03378573 Reference : WO 02097344

Responsible: E. HAYES JR

Department: 11300

Title

03

ISSUE TICKET

PRINTED 04/08/2015.

25. x ≈ 08:11 EC110202 (MV) INSTALL HARDEN WASHER ON VALVE 2ND-126

Deliver To : On Site Delivery

PAGE: 1

VALVE TRAILER

Cmp Fac GID QU Process

Project Activity ID Account Sub Acct

DUK MC DK MCO2 NFUKUGN M0111200C

Percent

M0110202

Reference

100.000000

Cat ID - PQL Location Iss Qty M/R Qty Backlog UI Pck Stg 0000459171 1 A D 07 021 002

A D 07 021 002 1 1 EA VALVE, GATE, SPLIT WEDGE, Z", 09G-2008, ASME/ANSI B16.34 CLASS 800 MANUAL CT. CC. 200 AND AND ADDRESS OF THE PROPERTY OF 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

Issued By : S. BARBEE

******************************* Issue Date: 04/08/2015 Time: 08:11

Received By: T. JOHNSON II

1. Owner <u>Duke</u>	Energy Carolinas, LLC		 	— Date 10/14/2015		·	
526.5	South Church Street, Charlotte, Address	NC, 28201		Sheet <u>1</u> of <u>2</u>	_		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, I Address			2097346-19 Work Order # (or Repa	nir/Replacemen	t Organization P.O. No., J	ob No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, LI</u> Name	.c		Type Code Symbol Authorizati			-
	526 South Church Street, C Address		6	Expiration	NT.	/A	
4. Identification of Sys	stem FW - Refueling Water	<u> </u>		<u> </u>			
(b) Applicable Edit	istruction Code ASME III			dition, Summer and Winter he 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
***	tion XI Code Case(s) N/A		<u></u>				
6. Identification of Con	mponents						
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	Installed	<u>Yes</u>
2FW537	Crane	E5844	N/A	UTC# 30000911	2015	Installed	Yes
 		 					
							-
			+		_		
7. Description of Work	Add New Compone	nt/Part/Appurtenance/W	eld				
Additional Description	n Added piping and	valve 2FW537 per EC11	0203.				
8. Tests Conducted: 1 oF Description (Opt	Hydrostatic Pneumatic rional): <u>Test performed per pro</u>			empt Other Pre	ssure 40	PSI Test Ten	np. 86

9. Remarks (Should Include the Following Information of the Following Info	mation, as Applicable):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 4 & 8 in.	(nominal) System Class:	ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2F			
Flow Diagram No(s).:	MCFD-2571-01.00		
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. No.		on NIS-2 Form: EC110203	
	Applicable Manufacturer's	s Data Reports to be attached	
	CERTIFICATE (OF COMPLIANCE	
I certify that the statements made in the report a	re 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	Phino	Date October 14 , 20 15
Owner or Owner's Design		Ju no my	, 20
		· · · · · · · · · · · · · · · · · · ·	
		SERVICE INSPECTION	
I, the undersigned, holding a valid commission is			1 the State or Province of
North Carolina	and employed by HS	SB Global Standards	of
Connecticut		omponents described in this Owner	r's Report during the period
$\frac{4-2.7-15}{\text{to } \frac{10-15-1}{\text{to acc}}}$ measures described in this Owner's Report in acc	, and state that to the best of my coordance with the requirements of the	knowledge and belief, the Owner I ASME Code, Section XI.	has performed examinations and taken corrective
			he examinations and corrective measures described al injury or property damage or a loss of any kind
IF Swan Jerome F. Love	comCom	missions NB11473-NC1524, N-1	
Date Date 1 lnspector's Signature , 20		al Board, State, Province, and Endorsements	
,			

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

Manufactured and certified by <u>CRANE Nu</u>	(name and addr	ess of N Cartificate Holder)	-
Manufactured for Duke Energy Carolinas	LLC, Dept. ID: DPNMNS, P.O. (name and address	. Box 37925, Charlotte NC of purchaser)	28237-7925
Location of installation McGuire Nuclear S	Station, 13225 Hagers Ferry Rd	HWY 73, Huntersville, NC 2	28078-8985
Model No., Series No., or Type 47 1/2	UF-SPL Drawing (CC04251 Rev	C CRN N/A
ASME Code, Section III, Division 1:	1998 2000 (addenda date)	2 ! (class)	(Code Case no.)
Pump or valve Valve	Nominal inlet size	4° Outlet siz	e <u>4"</u>
Material:		/	
(a) valve Body SA351 CF8M (b) pump Casting	Bonnet SA351 CF8M Cover	Disk SA351 CF8M Bolting	Bolting See page 2
(a) (b) Cert. Nat'l Holder's Board	(c) Body/Casing Serial	(d) Bonnet/Cover Serial	(a) Disk Serial
Serial No. No.	No.	No.	No.
E5844 N/A	E5845	E5848 /	E5850

Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 6 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

(pressure (temperature) 9. Cold working pressure 275 10. Hydrostatic test 425 Disk differential test pressure 305 11. Remarks: Bonnet Stud: 1913 Gr BBM & Heat No.: 151871 & Heat Code: BHY Bonnet Stud Nut: /S4194 Gr BM & Heat No.: 256846 Deprive SA312/F9316 & Heat No. 256846 Deprive SA312/F9316 & Heat No. 37087 & Trace No. 29818 CNI Sales Order 44820-01 CERTIFICATION OF DESIGN				Çen	incate Holders	Senai No),t	20844
10. Hydrostatic test 425 Disk differential test pressure 305 11. Remarks: Bonnet Stud: SA193 Gr BBM & Heat No.: 151871 & Heat Code: BHY Bonnet Stud Nut: /SA194 Gr BM & Heat No.: 256846 Pipe Nipple: SA312/F9316 & Heat No. 37087 & Trace No. 29818 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 NA P.E. State N/A Reg. no. N/A 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. (N Certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and employed by HBB (Jobal Standards of Hartford, C) 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 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.	8	Design conditions			or valve pres	ssure clas	s s	
11. Remarks: Bonnet Stud : SA193 Gr B8M & Heat No. : 151871 & Heat Code: BHY Bonnet Stud : Nut: SA194 Gr BM & Heat No. : 256848 Pipe Nipple : SA312,7P316 & Heat No. : 256848 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 NA 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 CEVENTION 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.	9,	Cold working pressure	275	_				
Bonnet Stud Nut: SA194 Gr 8M & Heat No. : 256848 Pipe Nipple : SA312,7P316 & Heat No. : 256848 Pipe Nipple : SA312,7P316 & Heat No. 37087 & Trace No. 25816 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 NA P.E. State NA Reg. no. NIA 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 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 lang kind arising from or connected with this inspection. Date 6/15/2015 Signed Commissions 10989 A.N.I.C	10.	Hydrostatic test	425	Disk differential	test pressure			
Bonnet Stud Nut: SA194 Gr 8M & Heat No. : 256848 Pipe Nipple : SA3127P316 & Heat No. 37087 & Trace No. 25818 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 NA P.E. State NA 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 Control (Everette Modey) 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 lang kind arising from or connected with this inspection. Date 6/15/2015 Signed Commissions	11.	Remarks: Bonnet St	ud : SA193 Gr B8M & Hea	No. : 151871 & He	eat Code: BHY	7		
CERTIFICATION OF DESIGN Design Specifications certified by Barry S Howell P.E. State NC Reg. no. 16943 Design Report certified by NA P.E. State NA Reg. no. NA 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 Curtificate in this Cartificate Holder) 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 As 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 8/15/2015 Signed Commissions 10989 A.N.I.C		Bonnet St	ud Nut : SA194 Gr 8M & H	leat No. : 256848 -				
Design Specifications certified by Barry S Howell P.E. State NC Reg. no. 18943 Design Report certified by NA P.E. State NA Reg. no. NA 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. (N Certificate Holder) 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 Commissions 10989 A.N.I.C		Pipe Nippi	6 : SA312/1P316 & Reat N	10. 37087 & Trace N	0. 29816			
Design Specifications cartifled by Barry S Howell P.E. State NC Reg. no. 18943 Design Report cartifled by N/A P.E. State N/A Reg. no. N/A CERTIFICATE OF COMPLIANCE We cartify 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 Cartificate of Authorization No. N-2899 Expires September 9, 2017 Date 6/15/2015 Name CRANE Nuclear, Inc. (N Certificate Holder) 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 émployer 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 Commissions 10989 A,N,I,C		CNI Sales Order 44820	<u>-01</u>	,			-	
Design Specifications cartifled by Barry S Howell P.E. State NC Reg. no. 18943 Design Report cartifled by N/A P.E. State N/A Reg. no. N/A CERTIFICATE OF COMPLIANCE We cartify 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 Cartificate of Authorization No. N-2899 Expires September 9, 2017 Date 6/15/2015 Name CRANE Nuclear, Inc. (N Certificate Holder) 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 émployer 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 Commissions 10989 A,N,I,C		 						
CERTIFICATE OF COMPLIANCE We cartify 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. (N Certificate Holder) 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 and state that to the best of my knowledge and bellef, 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 Commissions 10989 A.N.I.C			CERTIF	ICATION OF DESIG	BN .			
CERTIFICATE OF COMPLIANCE We cartify 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 Cartificate of Authorization No. N-2899 Expires September 9, 2017 Date 6/15/2015 Name CRANE Nuclear, Inc. (N Cartificate Holder) 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 distale 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 cartificate, 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 Commissions 10989 A,N,I,C	Desi	gn Specifications certified	by Barry S	Howell	P.E. State	NC	Reg. no.	18943
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. (N Certificate Holder) Signed 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 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-lany kind arising from or connected with this inspection. Commissions 10989 A.N.I.C	Desi	gn Report certified by	N/A		P.E. State	N/A	Reg. no.	N/A_
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. (N Certificate Holder) Signed 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 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-lany kind arising from or connected with this inspection. Commissions 10989 A.N.I.C								
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. (N Certificate Holder) Signed 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 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-lany kind arising from or connected with this inspection. Commissions 10989 A.N.I.C						 -		
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 Gode, 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 Commissions 10989 A.N.I.C	We o	certify that the statements e ASME Code, Section III	made in this report are cor			nforms to	the rules for	construction
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 Commissions 10989 A,N,I,C	N C	artificate of Authorization i	۷oN-	2899	Expires S	eptembe	r 9, 2017	
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 Commissions 10989 A,N,I,C	Date	6/15/2015 N			Signed &	utl	Everette Motley)	dez
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 Commissions 10989 A,N,I,C			CERTIFIC	CATE OF INSPECT				
have inspected the pump, or valve, described in this Data Report on 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 Commissions 10989 A,N,I,C	l, the		valid commission issued by	the National Board				ployed by
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 Commissions 10989 A,N,I,C				· · · · · · · · · · · · · · · · · · ·		6/15/2	015	
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 Commissions 10989 A,N,I,C				Certificate Holder I	has constructed	this pur	np, or valve, in	n accordance
Date 6/15/2015 Signed Commissions 10989 A,N,I,C	com	ponent described in this D	ata Report. Furthermore,	neither the Inspecto	r nor his employ	yer shall l	be liable in an	
(National Board Number and Endorsement) Mike Haydon	Date	6/15/2015 Signed	(Authorized Neclear Instruction		(Nation:			sment)

(07/11)

TIBIA81

Mtl Rqst : 03380685 02754400 Reference : WO 02097346 07

Responsible: KEEVER EDWARD

Department: 11300 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 100.000000

Cat ID - PQL Location Iss Qty M/R Qty Backlog UI Pck Stg 20000857156 1 1 1 EA

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

UTC Nbr: 0030000911 Trace 1: S SN#E5844 Trace 2: M PN#05B-826

Safety Class (QA Condition): 1

Issued By : BARBEE SHERRI

Issue Date : 06/22/2015 Time: 15:30

Received By: REID JERRY

1. Owner <u>Duke</u>	Energy Carolinas, LLC			Date 2/17/2015	**************************************	The state of the s	
526	South Church Street, Charlotte Address	NC, 28201		Sheet 1 of 2	g a second da		
2. Plant	McGuire Nuclear Station Name	:		Unit 2			
	12700 Hagers Ferry Road, Addre			2097347-10 Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	Duke Energy Carolinas, I Name			Type Code Symbol S	- [
	526 South Church Street, Addre		6	Authorization Expiration	57/	the state of the s	
4. Identification of Sys	stem KF - Spent Fuel Cooling	rana pakamangan manakan kanggupan kepadamangan mengan mangan mangan mengangan mengangan mengangan mengangan mengangan P	ant displacement with distriction and with all superfectives any consequence of the same and superfectives and superfective and	yaku dalami kala da Jaraya da pengunun yakan kanggara kada a Alama, dari da persaman karamatan dan menguntuk d			
	nstruction Code ASME III tion of Section XI used for Rep	pair/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Sec	tion XI Code Case(s) N/A					· · · · · · · · · · · · · · · · · · ·	
6. Identification of Co	mponents					·	
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
		1				1	
	The state of the s	The state of the s					<u> </u>
		***************************************		Comment of account of the Account of		1 1 1	
The second secon	The state of the s	A STATE OF THE STA		And the second s		:	
7. Description of World	Add New Compon	ent/Part/Appurtenance/W	<u>eld</u>				
Additional Description	Added piping and	valve 2KF525 per EC11	0204.				
8. Tests Conducted: oF Description (Opt	Hydrostatic Pneumatic rional): test performed per pro			empt Other Pres	sure 8	PSI Test Tem	p. 70.7

9. Remarks (Should Include the Following Infor	mation, as Applicable):		Sheet $\frac{2}{2}$ of	2
		lass: ASME Class 3		
Weld Isometric Drawing No(s).: MCFI-2K	F-10			
Flow Diagram No(s).:	MCFD-2570-01.00	page page and the same book in a company based belongs and the discount of the same of the		
Support/Restraint Sketch/Drawing No(s).:	N/A	odanamia umphania phanisi imika ezinen kaninkia yiri, mika "synere misel" (mil ib e ne ubusi semirin		******************************
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included elsewh	ere on NIS-2 Form:	The country of the Co	
	Applicable Manufa	cturer's Data Reports to be attached		
		TE OF COMPLIANCE		
I certify that the statements made in the report a	re correct and that this conforms t	to the requirements of the ASM	E 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		8 Then	Date February 17,	20 15
Owner of Owner's Design	nee, rue			
	CONTINUE	D DIGERRALOE INCRECTION		
I, the undersigned, holding a valid commission		F INSERVICE INSPECTION to iler and Pressure Vessel Inspe		
North Carolina	and employed !	HSB Global Standards	A STATE OF THE STA	of
Connecticut	;		is Owner's Report during the period	_ 01
8-20-19 to 2-18-/ measures described in this Owner's Report in a	5, and state that to the best of	of my knowledge and belief, the	Owner has performed examinations and taken corre	ective
•	-		porming the examinations and corrective measures de	scribed
in this Owner's Report. Furthermore, neither the	nor his employer makes any warrane line in the line in	l be liable in any manner for any	cerning the examinations and corrective measures de y personal injury or property damage or a loss of any	y kind
arising from or connected with this inspection.		•		
[F		27711160 2701	COL N. I	
IF Swan Coron Inspector's Signature	Jan	Commissions NB11473-NC1 National Board, State, Province, and End		
inspector's Signature		realional Doald, State, Frontiec, and Life	ot believe	
Date 2-/8, 2	025		· ·	
	,		·	

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

	i				<u> </u>
· .	Manufactured and certific	ed by Flowserve Corpora	tion, 1900 South Saunders Street	t, Raleigh, N.C. 27603	· ·
	a ha sa ta an a ta a Dulea	Energy Carolinas, LLC, P.O. Bo	,	·	
7	2. Manufactured for Duke	Energy Carolinas, LLC, P.O. Bo	(name and address of Purc	haser)	
	3 Location of installation	Oconee Nuclear Station, 155 Ea	st Pickens Highway, Seneca, S.C	2 29672	
•	b. Education of installation		(name and addre	(51)	
•	4. Model Na., Series Na., or	Type 800 SW GATE / Dr	rawing <u>W9925256</u> /	ev. <u>C ′</u>	CRN N/A
į	5. ASME Code, Section III, E	Division 1 1986 / (edition)	NO ADDENDA [Addenda (f applicable) (date))	(class)	- N/A (Code Case no.)
	6. Pump or valve VALVE	Nominal inlet size	2.00" Outlet size	2.00°	
-	7. Material	1 CEPN / - CA 420 73 C			
	(a) valve Body SA35			g N/A	
	(b) pump Casing	Cover	Balting	•	•
	(a)	(b)	(c)	(d)	(e) Diale
	Certificate Holder's	National Board	Body/Casing Serial	Bonnet/Cover Serial	Disk Serial
	Serial No.	No.	No.	No.	No.
2016572	(37BVP)	2993	P3491-16 /	150717-128	* SEE REMARKS
2017020		2994	P3491-17 -	150717-129	* SEE REMARKS
2017021	39BVP	2995	P3491-18	150717-130 /	* SEE REMARKS
_					
	<u></u>			 	
-	·				
-					
_	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
_					
-					
_					
_					
_					·—···
-					
-					·
-					
-		· · · · · · · · · · · · · · · · · · ·			
-					
,					
_					

J. K. K.

[&]quot;Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 11; (2) Information in items 1 through 4 on this Osta 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.

* CORRECTED COPY 5/15/2013

FORM NPV-1 (Back — Pg. 2 of _____)

8. Design conditions 1169 psig (resulting)					Ce	rtificate Hold	ier's Seria	1 No. 37B	VP - 39BVP
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 - MATU: SA564-630-HI075/HEAT NO: G6672/SERIAL NO: 1(37BVP)/2(38BVP)/3(39BVP) *DISC - 37BVP/MALE: 32320-1/FEMALE: 23480-1-6/* *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 a ASME Code, Section III, Division 1. N Certificate of Authorization No. N-1562 Expires 11-26-2015 Date 5/15/2017 Name FLOWSERVE CORPORATION Signed CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.	8.	Design conditions	1169 psig /		or valve pressure class	800			
10. Hydrostatic test 3000 psig Disk differential test pressure 2200 psig 11. Remarks S.O. 100680-001 GASKET RETAINER - MATL: \$A554-630-H1075/HEAT NO: G6672/SERIAL NO: 1(37BVP), 2(38BVP), 3(39BVP) *DISC - 37BVP/(MALE: 31530-1/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 Signed In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed. I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.				(temperature)					
GASKET RETAINER - MATL': SA564-630-H1075/HEAT NO: G6672/SERLAL NO: 1(37BVP)/2(38BVP)/3(39BVP) *DISC - 37BVP/MALE: 32520-1/FEMALE: 23480-1-6)/ *39BVP/MALE: 25520-3/FEMALE: 23480-1-6)/ *39BVP/MALE: 25520-3/FEMALE: 23480-1-6)/ CERTIFICATION OF DESIGN Design Report 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 a ASME Code, Section III, Division 1. N Certificate of Authorization No. N-1562 Expires 11-26-2015 Date 5/15/2017 Name FLOWSERVE CORPORATION Signed (Rullborred representation of inspectors and employed in the pump of the pump of the pump of the rules for construction of inspectors and employed in the pump of the	5.								
GASKET RETAINER - MATU: SA564-630-H1075/HEAT NO: G6672/SERIAL NO: 1(378VP)/2(388VP)/3(398VP) *DISC - 378VP/MALE: 32520-1/FEMALE: 23480-1-67 *398VP/MALE: 25520-3/FEMALE: 23480-1-67 *398VP/MALE: 25520-3/FEMALE: 23480-1-67 CERTIFICATION OF DESIGN Design Report certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E 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 a ASME Code, Section III, Division 1. N Certificate of Authorization No. N-1562 Expires 11-26-2015 Date 5/15/20/3 Name FLOWSERVE CORPORATION Signed (N Certificate OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.	10.	Hydrostatic test3	000 psig D	isk differential test pressure	2200 psig				 ,
*DISC - 37BVP (MALE: 23520-14 FEMALE: 23480-1-6) *39BVP (MALE: 25520-34 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 5/15/2017 Name FLOWSERVE CORPORATION Signed (authorized represented) ** CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.	11.	Remarks		S.O. 100680-001					
CERTIFICATION OF DESIGN Design Specification certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E Design Report certified by Richard J. Gradie 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 a 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 (Buthonzed represented) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.		GASKET RETAINER	- MATL': SA564-6	30-H1075, HEAT NO: G667	2, SERIAL NO: 1(37B)	VP), 2(38BV	P), 3(39B	IVPY	
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 PA 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 a 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 (suthorized representation of the conformation of the conformation of the certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.					32520-2, FEMALE: 2348	0-1-5)			
Design Specification certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E 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 5/15/2017 Name FLOWSERVE CORPORATION Signed (Suthorized representation) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiller and Pressure Vessel Inspectors and employed.		*39BVP (MALE:	25520-3/FEMALE:	23480-1-6)		 -			
Design Specification certified by Floyd A. Bensinger P.E. State PA Reg. no. 31002-E 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 5/15/2017 Name FLOWSERVE CORPORATION Signed (Suthorized representation) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiller and Pressure Vessel Inspectors and employed.		· · · · · · · · · · · · · · · · · · ·						······································	
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 5/15/2017 Name FLOWSERVE CORPORATION (N Certificate Holder) Signed (authorized representation of the rules for construction of the rules for constructi				CERTIFICATION	of Design				
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 5/15/2017 Name FLOWSERVE CORPORATION (N Certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed.	De	esign Specification certi	fied by			P.E. State		Reg. no.	
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 5/15/2017 Name FLOWSERVE CORPORATION Signed (authorized representation of the rules for construction of the rules for	De	esign Report certified by	· 	Richard J. Gradle		P.E. State	_NC_	Reg. no.	20154
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 5/15/2017 Name FLOWSERVE CORPORATION Signed (authorized representation of the rules for construction of the rules for									
ASME Code, Section III, Division 1. N Certificate of Authorization No. N-1562 Expires 11-26-2015 Date 5/15/2017 Name FLOWSERVE CORPORATION N Certificate Holder) Signed (suthorized representation of the composition	İ			CERTIFICATE OF	COMPLIANCE				
ASME Code, Section III, Division 1. N Certificate of Authorization No. N-1562 Expires 11-26-2015 Date 5/15/2017 Name FLOWSERVE CORPORATION N Certificate Holder) Signed (suthorized representation of the composition	w	a northy that the states	mente modo in this	report are correct and that	t this numb or value o	oniarma ta	the rules	for constr	uction of the
Date 5/5/2017 Name FLOWSERVE CORPORATION Signed (authorized representation) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed	ŀ	•		roport and controct and the	tine pump or vare t	Jonioinia to	uie reice	io Consu	
CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed	N	Certificate of Authorizat	tion No.	N-1562	Expires		11-26-	2015	/
CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed		5/15/2017	Name	FLOWSERVE CORPORA	TION Stand				2/
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed	٦	and <u> </u>		(N Certificate Holder)	Signed	(8	nulhorized re	DI 88 200 1	
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and employed	_			·					
				CERTIFICATE OF	INSPECTION				
	1.	the undersigned, holdi			al Board of Boller and I	Pressure Ve	ssel Insp	ectors and	employed by
of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report	of								
, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or value in accordance with the ASME Code, Section III, Division 1.	in	accordance with the AS	, and state tha ME Code, Section II	t to the best of my knowledg I. Division 1.	e and belief, the Certifica	ite Holder h	es constru	cted this pu	mp, or valve,
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component descri	By	y signing this certificate	neither the inspecto	or nor his employer makes an					
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property dam					half be fiable in any man	ner for any	personal 1	injury or pro	perty damage
or a loss of any kind arising from or connected with this inspection.	or	a loss of any kind arisin	Trom or connected	MIT THE IDEPOSION.					
Date 5/15/16 Signed Authorized Nuclear Impector) Commission UB 136/20~ [National Board Number and Endorsement]	D	ate 5/15/16	Signed //	MILLER	_ Commission	NB136/	20N		

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 2/16/2015 Date 526 South Church Street, Charlotte, NC, 28201 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 2102475-05 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 Corrected, ASME Code Name of Removed, or Stamped Other Year Manufacturer National Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A <u>Yes</u> Duke Energy N/A 55 1982 Corrected VI System 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced connection A, B, C, and D on panel. Pressure 99 Test Temp. 77 PSI 8. Tests Conducted: Hydrostatic Pneumatic [Nominal Operation Pressure Exempt . Other ___ test performed per procedure MP/0/A/7650/076. Description (Optional):

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{}$ of $\frac{2}{}$
Component Line Size: 1 1/5 in. (nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2VI132 & 133	- AND THE CONTRACT OF THE CONT
Flow Diagram No(s).: MCFD-2605-01.18	amaginimaning at the distribution of the contract of the contr
Support/Restraint Sketch/Drawing No(s).: N/A	ng apagana maganagang a gala dan dan dan garang paganagan paganagan paganagan dan dan dan dan dan dan dan dan dan d
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:	The second design of the second secon
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 Expirati	on Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	February 16, 20 15
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 Prov	rince of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during	
nave inspected the components described in this swiner steepest during	
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	minations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations a in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or proper arising from or connected with this inspection?	nd corrective measures described ty damage or a loss of any kind
JF Swan Commissions NB11473-NC1524, N-1	The second secon
Inspector's Signature National Board, State, Province, and Endorsements	
Date 2-16, 20/5	

1. Owner <u>D</u>	uke Energy Carolinas, LLC		 	Date 2/19/2015		more the confinence or purpose in monorable from the street and all the street of the	
5	526 South Church Street, Charlotte Address	e, NC, 28201	······································	Sheet 1 of 2	1		
2. Plant	McGuire Nuclear Station Nam	ne		Unit <u>2</u>	_		
	12700 Hagers Ferry Road			2113201-13			
	Addr	ess		Work Order # (or Repa	ir/Replacemen	t Organization P.O. No., Jo	b No., etc.)
3. Work Performed	d by <u>Duke Energy Carolinas</u> , Nam			Type Code Symbol S		the matter to approve the section is about a graph of the section	
	526 South Church Street,	Charlotte, NC 28201-1006	5	Authorization	27	material in the control of the Assessment of the Assessment of the Control of the	0 and 11111111111111111111111111111111111
	Addı	ress		Expiration	Date: N	A	
4. Identification of	System CA - Auxiliary Feedwa	ter					
	Construction Code ASME III Edition of Section XI used for Re	pair/Replacement Activity		lition, Summer and Winter ne 2008 Addenda	Ado	denda, N/A	Code Case
(c) Applicable	Section XI Code Case(s) N/A			gay gay dalah daki ili, kumalay say gayar sayahirin kara sarah dalah sayah dalah sayah dalah dalah dalah dalah			
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	<u>No</u>
The second secon	to the control of the						
to the state of th						, we make	
					L service and a	The second secon	
		3		4	1		
	The second secon	Company of the Compan	The same of the sa	The state of the s			
7. Description of V	Vork Add New Compo	nent/Part/Appurtenance/We	eld				
Additional Descri	iption Added hanger 2N	MCA-CA-5572 per EC1039	963.				
8. Tests Conducted	Control of the Contro	Nominal Operation	n Pressure Ex	empt Other Pres	sure	PSI Test Tem	p
^o F Description ((Optional):						

9. Remarks (Should Include the Following Infor-	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class: ASME Class:	<u>3</u>
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).:	N/A	The state of the s
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5572	· · · · · · · · · · · · · · · · · · ·
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included elsewhere on NIS-2 Form:	EC103963
!	Applicable Manufacturer's Data Reports to be a	attached
	CERTIFICATE OF COMPLIA	NCE
I certify that the statements made in the report a	are correct and that this conforms to the requirements o	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 Tathan	Date February 19 . 20 15
Owner or Owner's Desig		, 20
L 		
	CERTIFICATE OF INSERVICE INS	PECTION
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure V	essel Inspectors and the State or Province of
North Carolina	and employed by HSB Global Stand	dards of
Connecticut		cribed in this Owner's Report during the period
1-22-15 to 2-26- measures described in this Owner's Report in ac	and state that to the best of my knowledge and ecordance with the requirements of the ASME Code, S	belief, the Owner has performed examinations and taken corrective Section XI.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any warranty, expressed or im the Inspector nor his employer shall be liable in any man	aplied, concerning the examinations and corrective measures described nner for any personal injury or property damage or a loss of any kind
JF Swan lerome - 1	Commissions NB1	1473-NC1524, N-1
Inspector's Signature	National Board, State, Prov	vince, and Endorsements
Date		

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

		As Required by th	e Provisions of the ASME (Code Section XI			
1. Owner <u>Dul</u>	ke Energy Carolinas, LLC	 		—— Date 2/19/2015			
52	6 South Church Street, Charlotte, Address	NC, 28201		Sheet 1 of 2	!		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, 1			2113201-14			}
	Addres			Work Order # (or Rep	air/Replacemen	t Organization P.O. No., J	ob No., etc.)
3. Work Performed 1	by <u>Duke Energy Carolinas, LI</u> Name	LC		Type Code Symbol	Stamp: N	'A	1
			_	Authorizati	on No.: N	'A	
	526 South Church Street, C Addres		6	Expiration	Date: N	A	
4. Identification of S	ystem CA - Auxiliary Feedwate						
· -	onstruction Code ASME III dition of Section XI used for Rep.	air/Replacement Activity		Edition, Summer and Winter he 2008 Addenda	Ado	denda, N/A	Code Case
(c) Applicable So	ection XI Code Case(s) N/A					10 Co. 200 Co.	
6. Identification of C	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
	A THE COLOR OF THE		1				
) }				
				The state of the s			
and the second s						1	
the state of the s	The second secon						
7. Description of Wo	ork Add New Compone	nt/Part/Appurtenance/W	<u>eld</u>				
Additional Descript	Added hanger 2M0	CA-CA-5573 per EC103	963.				
8. Tests Conducted:		Nominal Operation	on Pressure E	cempt V Other Pre	ssure	PSI Test Tem	ıp.
^o F Description (O	ptional):						

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$	
	(nominal) System Class: ASME Class 3		
Weld Isometric Drawing No(s).: N/A			
Flow Diagram No(s).:	N/A	A Land William Commission Commiss	
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5573		N W
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included elsewhere on NIS-2 Form:	EC103963	
	Applicable Manufacturer's Data Reports to be a	ttached	
	CERTIFICATE OF COMPLIAN		
I certify that the statements made in the report a	are correct and that this conforms to the requirements of	the ASME Code, Section XI.	
Type Code Symbol Stamp N/A			
2111			
Certificate of Authorization No. N/A		Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical	Specialist AM	Date February 19 . 20	15
Owner or Owner's Desig		, 20,	
<u> </u>			
	CERTIFICATE OF INSERVICE INS		
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Ve	ssel Inspectors and the State or Province of	
North Carolina	and employed by HSB Global Stand	ofof	f
Connecticut		ribed in this Owner's Report during the period	
/-28-/5 to 2-26- measures described in this Owner's Report in ac	and state that to the best of my knowledge and coordance with the requirements of the ASME Code, So	belief, the Owner has performed examinations and taken correctivection XI.	ve
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any warranty, expressed or imple Inspector nor his employer shall be liable in any man	plied, concerning the examinations and corrective measures descriner for any personal injury or property damage or a loss of any kin	ibed ind
JF Swan grome 1. Su	Commissions NB11	473-NC1524, N-1	
Inspector's Signature	National Board, State, Provi	nce, and Endorsements	
Date 2 - 26, 2	0 75		

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

		As Required by the	e Provisions of the ASME (entre de la constante de la co	man.) say day, no an analogo, a proper particular last a market an annual description.	
1. Owner	Duke Energy Carolinas, LLC			—— Date <u>2/19/2015</u>			
	526 South Church Street, Charlotte Address	, NC, 28201		— Sheet 1 of 2]		
2. Plant	McGuire Nuclear Station Name	e		Unit <u>2</u>			
	12700 Hagers Ferry Road, Addre			2113201-15	/b 1		
3. Work Perform		LC		Type Code Symbol S Authorizatio	Stamp: No.: No.:	/A	b No., etc.)
	Addre		<u></u>	Expiration	Date: N	/A	
4. Identification	of System CA - Auxiliary Feedwat	er					- Company
5. (a) Applicab (b) Applicab	le Construction Code ASME III le Edition of Section XI used for Replace Section XI Code Case(s) N/A			dition, Summer and Winter he 2008 Addenda	Ad	denda, N/A	Code Case
6. Identification	• • • • • • • • • • • • • • • • • • • •						
Name of Componen		Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MCA-CA-557	4 Duke Energy	ìN/A	,N/A	N/A	N/A	Installed	No
and the second of the second o	The second section of the						
The second secon	The grades a strong to the second sec						
gard to the description of the state of the						in the second se	
	The second of th						
The contract of the state of th	The first of the f					1	
7. Description of	Work Add New Compon	nent/Part/Appurtenance/W	eld				
Additional Des	cription Added hanger 2N	ACA-CA-5574 per EC103	963.				
	red: Hydrostatic Pneumatic	Nominal Operatio	on Pressure Ex	tempt ✓ Other ☐ Pres	sure	PSI Test Tem	p

Weld Isometric Drawing No(s): IN/A Support/Restraint Sketch/Drawing No(s): IN/A Support/Restraint Sketch/Drawing No(s): IN/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 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 Connecticut And employed by HSM Global Standards One of North Carolina Connecticut The North Carolina and employed or Make Standards One of North Carolina and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina Connecticut The North Carolina and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by the National Board of Boiler and Pressure Vessel Inspector and the State or Province of North Carolina and Endorsements Connecticut The National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements	9. Remarks (Should Include the Following Information			Sheet :	$\frac{2}{2}$ of $\frac{2}{2}$
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: EC103963		inal) System Class: 4	ASME Class 3		
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 Signed FL Grass, Quality Assurance Technical Specialist 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 Connecticut A	Weld Isometric 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	Flow Diagram No(s).:	<u> </u>	apalas an lan plantación organizar que emissou entreja das tables activos de profesiones per ambien plantación		and a second control of a second for the second control of the second of
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 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 Connecticut And And Expiration Date N/A Connecticut And Expiration Date N/A Date February 19 , 20 15 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 Connecticut And Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Connecticut And Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Connecticut And Expiration Date N/A Expirati	Support/Restraint Sketch/Drawing No(s).: 2M	CA-CA-5574	nganagana taun a maristik magasias (alamat V tarant angga i dangkilan, terbinah sa 1 umusi da sebu watan kan		
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 Signed FL Grass, Quality Assurance Technical Specialist 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 Connecticut Ave inspected the components described in this Owner's Report during the period Ave inspected 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 a connected with this inspection Commissions NB11473-NC1524, N-1	Other Applicable Information (e.g., W.O. No., EC	No.) if not included elsewhere on I	NIS-2 Form: EC103963	A CONTRACTOR OF THE PROPERTY O	
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 Signed FL Grass, Quality Assurance Technical Specialist 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 Connecticut have inspected the components described in this Owner's Report during the period 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 Commissions NB11473-NC1524, N-1		Applicable Manufacturer's D	ata Reports to be attached		
Certificate of Authorization No. N/A Signed FL Grass, Quality Assurance Technical Specialist 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 Connecticut have inspected the components described in this Owner's Report during the period Ave inspected the components described in this Owner's Report during the period 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 a connected with this inspection Commissions NB11473-NC1524, N-1					•
Certificate of Authorization No. N/A Signed FL Grass, Quality Assurance Technical Specialist 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 And 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 with 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 a connected with this inspection Commissions NB11473-NC1524, N-1	I certify that the statements made in the report are co	rrect and that this conforms to the re	equirements of the ASME Co	de, Section XI.	
Signed FL Grass, Quality Assurance Technical Specialist 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 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 ar connected with this inspection Commissions NB11473-NC1524, N-1	Type Code Symbol Stamp N/A				
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB Global Standards Connecticut have inspected the components described in this Owner's Report during the period have inspected the 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 a connected with this inspection Commissions NB11473-NC1524, N-1	Certificate of Authorization No. N/A	·		Expiration Date N/A	
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB Global Standards Connecticut have inspected the components described in this Owner's Report during the period have inspected the 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 a connected with this inspection Commissions NB11473-NC1524, N-1	Signed FL Grass, Quality Assurance Technical Spec	cialist	Than	Date February 19	20 15
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 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 Commissions NB11473-NC1524, N-1					, ,
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 Connecticut have inspected the components described in this Owner's Report during the period 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 Commissions NB11473-NC1524, N-1					
North Carolina and employed by HSB Global Standards Connecticut have inspected the components described in this Owner's Report during the period 1		CERTIFICATE OF INSF	ERVICE INSPECTION		
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 Commissions NB11473-NC1524, N-1	I, the undersigned, holding a valid commission issue	d by the National Board of Boiler ar	ad Pressure Vessel Inspectors	and the State or Province of	therefore the product of the control
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 Commissions NB11473-NC1524, N-1	North Carolina	and employed by HSB	3 Global Standards		of
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 for connected with this inspection. Commissions NB11473-NC1524, N-1	Connecticut			vner's Report during the period	
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection JF Swan Commissions NB11473-NC1524, N-1	1-28-15 to $2-26-15$ measures described in this Owner's Report in accord	, and state that to the best of my kn ance with the requirements of the A	nowledge and belief, the Own SME Code, Section XI.	ner has performed examinations and ta	aken corrective
	in this Owner's Report. Furthermore, neither the Ins	is employer makes any warranty, ex pector nor his employer shall be lial	spressed or implied, concerning ble in any manner for any pers	ng the examinations and corrective me sonal injury or property damage or a l	easures described oss of any kind
		Comp	nissions NB11473-NC1524,	N-1	
Date					

1. Owner	Duke E	nergy Carolinas, LLC	· · · · · · · · · · · · · · · · · · ·		— Date 2/19/2015		The control of the co	
	526 So	uth Church Street, Charlotte, 1	NC, 28201		- Sheet 1 of 2			
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, H	Iuntersville, NC 28078		2113201-16	************		*
		Address			Work Order # (or Repair)	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Per	formed by	<u>Duke Energy Carolinas, LL</u> Name	<u>C</u>		Type Code Symbol St		and some first transmission of the state of	
		526 South Church Street, C	harlotte NC 28201_1006		Authorization	F-*****	which and the delt man a complete you'ld by . I have a top symptome these	er an oar oa Milwholer t
		Address			Expiration I	Date: N/	<u>A</u>	
4. Identificat	tion of Syste	m CA - Auxiliary Feedwater						
		ruction Code ASME III n of Section XI used for Repa	ir/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case
(c) Appli	icable Sectio	n XI Code Case(s) N/A			And the state of t			
6. Identificat	tion of Comp	oonents						
	ne of conent	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	<u>No</u>
		A CAMP AND	The second secon				Acc . mary	
		State and a set of the control of the state of control of the state of the control of the contro	A STATE OF THE STA		A SEA OF THE SEA OF TH		· ·	
		The province of the second of			The second of th			
			1				***************************************	
a second to the second	- M 1001 - AND B 1, 1,4 10 MINISTER D	the migraphic formation of the common of the		The second secon	A Contract of the Contract of			
7. Description			nt/Part/Appurtenance/We			The second secon		
Additional	Description	Added hanger 2MC	CA-CA-5575 per EC1039	63		ç	*** **********************************	
8. Tests Con oF Descri	ducted: Hy ption (Optio	graphical entransportation and an experience of the second section of the second section of the second second	Nominal Operation	Pressure Exer	mpt V Other Press	ure	PSI Test Tem	p
1 Descri	Prion (Ohiio							

Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(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	o., EC No.) if not included elsewhere on NIS-2 Form:	3963
:	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the ASM	ME Code, Section XI.
Type Code Symbol Stamp N/A		
Certificate of Authorization No. No.		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist ASH	Date February 19 , 20 15
Owner or Owner's Desig		
		
	CERTIFICATE OF INSERVICE INSPECTIO	ON .
I, the undersigned, holding a valid commission i	issued by the National Board of Boiler and Pressure Vessel Insp	
North Carolina	and employed by HSB Global Standards	of
Connecticut	have inspected the components described in t	this Owner's Report during the period
5-2/-/4 to 2-23- measures described in this Owner's Report in ac	, and state that to the best of my knowledge and belief, the cordance with the requirements of the ASME Code, Section X	he Owner has performed examinations and taken corrective I.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from of connected with this inspection.	nor his employer makes any warranty, expressed or implied, cor e Inspector nor his employer shall be liable in any manner for a	incerning the examinations and corrective measures described any personal injury or property damage or a loss of any kind
IF Swan / prome to hu	Commissions NB11473-NC	C1524, N-1
Inspector's Signature	National Board, State, Province, and En	
Date $\sqrt{\lambda - \lambda 3}$, 20	<u>A</u> _!c	

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

		As Required by th	e Provisions of the ASME (Code Section XI			
1. Owner <u>Duk</u>	e Energy Carolinas. LLC			—— Date 2/19/2015		1	
526	South Church Street, Charlotte, Address	NC, 28201		Sheet $\frac{1}{1}$ of $\frac{2}{1}$	1		
2. Plant	McGuire Nuclear Station			Unit 2			
	12700 Hagers Ferry Road, 1			2113201-17			
2 Work Dorformed by	1 1347 22			Work Order # (or Rep		Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	y <u>Duke Energy Carolinas, LI</u>	<u>_C</u>		Type Code Symbol	Stamp: N/	'A	
				Authorizati	on No.: N	'A	
	526 South Church Street, C Addres		16	Expiration	Date: N/	'A	
4. Identification of Sy	stem CA - Auxiliary Feedwate	r					The same and same and the same and same and same and
	nstruction Code ASME III ition of Section XI used for Rep.	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Ado	lenda, N/A	Code Case
(c) Applicable Sec	ction XI Code Case(s) N/A						
6. Identification of Co	omponents						
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
	Type of the second seco		1				
The second secon	The second section of the section of the second section of the section of the second section of the sect			per la contraction de la contr			
		i				1	
	The second of th			A CONTROL OF THE PARTY OF THE P		1	
1	The state of the s	Company of the control of the contro			and the second s	1	
7. Description of Wor	k Add New Compone	nt/Part/Appurtenance/W	<u>'eld</u>				
Additional Descripti	on Added hanger 2M0	CA-CA-5576 per EC103	963.	and an experimental control of the c		The second secon	a san and the san for go a . And a second density of front delication of
8. Tests Conducted: oF Description (Op	. The second sec	Nominal Operation	on Pressure \(\sum_{\text{Ex}} \)	cempt Other Pre	ssure	PSI Test Tem	ip
=(op	-y						

mation, as Applicable):			Sheet 2	of 2
(nominal) Syste	m Class: ASME Class 3			
	Make and the second control of the second co		No open elementarione, a conservativo de la conservación de la conserv	
N/A	rindam kila dhisiy gunumununun Anadambaris Visida (cilir di 🎉 t. o., adi ki sektirahti hasan ilmtad medi	ms. Infrarefficial and is a constructed this set reports that the area is suchable as a sincle is use.	umber film filmen alder. Menses harmon, und dem der Freinberg, film Filmen und Australie wurf.	de a record de la company
2MCA-CA-5576	mention of merculy and a supply and the successful of the supply of the	ann a stà shìostair i 1944 ann ann a bhaile aigh aigh aireann an aireann an stàitean a bhaile ann an an aigh a		and the property of the second second second second
o., EC No.) if not included els	ewhere on NIS-2 Form:	EC103963	arabirah dalam arabirah dalam da Barat dalam da	er (Vone Proposition & Religion of Management Affice on Appendix of Management Affice on Appendix of Management Affice of Management Af
Applicable Ma	nufacturer's Data Reports to be att	ached		
				
re correct and that this confor	ms to the requirements of	the ASME Code, Section XI.		
			manufaction on the filterioristic production and security	
		Expir	ration Date N/A	1
Specialist	-18 Wiene		Date February 19	20 15
	3/// / 2 - 3/			,
				···
CERTIFICAT	E OF INSERVICE INSP	ECTION	 	
issued by the National Board	of Boiler and Pressure Ves	ssel Inspectors and the State or Pr	rovince of	
and employ	ed by HSB Global Standa	ırds		of
			g the period	
15, and state that to the becordance with the requirement	est of my knowledge and but of the ASME Code, Se	pelief, the Owner has performed ection XI.	examinations and take	n corrective
e Inspector nor his employer	varranty, expressed or imp shall be liable in any mann	lied, concerning the examinations aer for any personal injury or prop	s and corrective measu perty damage or a loss	of any kind
Jan	Commissions NB114	473-NC1524, N-1		
0 75				
	Applicable Ma CERTIFICAT issued by the National Board and employ have inspect Applicable Ma CERTIFICAT issued by the National Board and employ have inspect Applicable Ma CERTIFICAT issued by the National Board and employ have inspect To an employer makes any years The semployer makes any years T	Applicable Manufacturer's Data Reports to be attended to the correct and that this conforms to the requirements of the requirements of the National Board of Boiler and Pressure Vessure described by the National Board of	Applicable Manufacturer's Data Reports to be attached CERTIFICATE OF COMPLIANCE are correct and that this conforms to the requirements of the ASME Code, Section XI. Expiration Specialist CERTIFICATE OF INSERVICE INSPECTION issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Property and employed by HSB Global Standards have inspected the components described in this Owner's Report during have inspected the components described in this Owner has performed of coordance with the requirements of the ASME Code, Section XI. Interval of the ASME Code, Section XI.	(nominal) System Class: ASME Class 3 N/A 2MCA-CA-5576 Dec., EC No.) if not included elsewhere on NIS-2 Form: EC103963 Applicable Manufacturer's Data Reports to be attached CERTIFICATE OF COMPLIANCE The correct and that this conforms to the requirements of the ASME Code, Section XI. Expiration Date N/A Specialist Date February 19 The CERTIFICATE OF INSERVICE INSPECTION Insued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of and employed by HSB Global Standards have inspected the components described in this Owner's Report during the period have inspected the components described in this Owner's Report during the period coordance with the requirements of the ASME Code, Section XI. In or his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of the Commissions of the NB11473-NC1524, N-1

1. Owner	Duke E	nergy Carolinas, LLC	·		— Date 2/16/2015			
•	<u>526 So</u>	uth Church Street, Charlotte, N	IC, 28201			AND THE RESIDENCE AND THE PROPERTY AND T		
		Address				_		
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, H	untersville, NC 28078		2113201-20		The second secon	To a state of the last security pair little of a public confliction difference can 1.
		Address			Work Order # (or Rep	air/Replacemen	t Organization P.O. No., J	ob No., etc.)
3. Work Peri	formed by	Duke Energy Carolinas, LL Name	<u>C</u>		Type Code Symbol			-
		526 South Church Street, Cl	narlotte NC 28201-100	6	Authorizati			<u> </u>
		Address		<u> </u>	Expiration	n Date: N	/A	
4. Identificat	tion of Syste	CA - Auxiliary Feedwater						*
		ruction Code ASME III on of Section XI used for Repa	ir/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Ad	denda, N/A	Code Case
(c) Appli	icable Section	on XI Code Case(s) N/A						
6. Identificat	ion of Com	ponents						
Nam Comp		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	t form the state of the state	Duke Energy	N/A	73	N/A	1982	Installed	Yes
g diga yang dan	· · · · · · · · · · · · · · · · · · ·					1	·	
		:						
		A the state of the					-	
, .		The second of th				: (
	minimum of the time that					prominent professional		
7. Descriptio	n of Work	Add New Componer	it/Part/Appurtenance/W	<u>eld</u>				
Additional 1	Description	Added piping per E	C103963.				ala producente de la	a
8. Tests Con	ducted: H	ydrostatic Pneumatic	Nominal Operatio	n Pressure 🗹 Ex	empt . Other . Pre	ssure *80	PSI Test Ten	np. <u>76.3</u>
°F Descrip	ption (Optic	nal): tests performed per prod	edure MP/0/A/7650/07	6 (* test parameters a	re within operational design p	er operation	<u>ns)</u>	

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-20	CA64 & 65	The second secon
Flow Diagram No(s).:	MCFD-2592-01.01	
Support/Restraint Sketch/Drawing No(s).:	N/A	
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included elsewhere on NIS-2 Form: EC10	03963
:	Applicable Manufacturer's Data Reports to be attached	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	are correct and that this conforms to the requirements of the ASI	ME 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 Allmus	Date February 16 , 20 15
Owner or Owner's Desig		
Take and denote and total	CERTIFICATE OF INSERVICE INSPECTIO	
North Carolina	issued by the National Board of Boiler and Pressure Vessel Ins and employed by HSB Global Standards	of
The state of the s		
Connecticut	have inspected the components described in	
measures described in this Owner's Report in a	, and state that to the best of my knowledge and belief, the coordance with the requirements of the ASME Code, Section X	the Owner has performed examinations and taken corrective II.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any warranty, expressed or implied, co ne Inspector nor his employer shall be liable in any manner for a	oncerning the examinations and corrective measures described any personal injury or property damage or a loss of any kind
JF Swan leropie F. Swa	Commissions NB11473-NC	C1524, N-1
Inspector's Signature	National Board, State, Province, and E	Endorsements
Date d , 2	01/_2	

1. Owner <u>Duke</u> 1	Energy Carolinas, LLC	As Required by the	Provisions of the ASME C	— Date 2/19/2015			
526 S	outh Church Street, Charlotte, N	IC, 28201		- Sheet $\frac{1}{1}$ of $\frac{2}{1}$	1		
2. Plant	Address <u>McGuire Nuclear Station</u> Name			Unit 2	-		
	12700 Hagers Ferry Road, H Address	untersville, NC 28078		2113201-25 Work Order # (or Repai	r/Replacement	t Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, LL</u> 0 Name	2		Type Code Symbol S	- G-		
	526 South Church Street, Charlotte, NC 28201-1006 Address			Authorizatio Expiration	D.T.		The second of th
4. Identification of Syst	cem CA - Auxiliary Feedwater						
	struction Code ASME III ion of Section XI used for Repai	r/Replacement Activity		lition, Summer and Winter ne 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
(c) Applicable Secti	ion XI Code Case(s) N/A						
6. Identification of Con	nponents						
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	<u>No</u>
The second secon	U STANDARD AND A PROMOMENT OF SECURITY OF SECURITY OF STANDARD AND AND AND AND AND AND AND AND AND AN						
* * * * * * * * * * * * * * * * * * * *				The state of the s			
	The second of th						
and the second s					has advantaged by the		
7. Description of Work	Add New Componen	t/Part/Appurtenance/We	eld				
Additional Description	Added hanger 2MC	A-CA-5577 per EC1039	963.				
8. Tests Conducted: H	Iydrostatic Pneumatic	Nominal Operation	n Pressure Ex	empt 🗹 Other 🗀 Press	виге	PSI Test Tem	ip
^o F Description (Opti	onal):]

9. Remarks (Should Include the Following Information)	mation, as Applicable):			Sheet 2	of <u>2</u>
Component Line Size: 2in. ((nominal) Sys	stem Class: ASME Class 3			
Weld Isometric Drawing No(s).: N/A					The state of the s
Flow Diagram No(s).:	N/A			The state of the s	ek annantus sukeur a sulau urkulusen upak a naunga etipliripi suke
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5577				Telephone Successive and American Street, Assessment
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included	elsewhere on NIS-2 Form:	EC103963		
·	Applicable	Manufacturer's Data Reports to be at	tached		
	CERT	IFICATE OF COMPLIAN	CE		
I certify that the statements made in the report as	re correct and that this conf	forms to the requirements of	the ASME Code, Section 2	XI.	
Type Code Symbol Stamp N/A					
Certificate of Authorization No. N/A				Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical	Specialist	78 than		Date February 19	20 15
Owner or Owner's Design					,
rate is a substitution of the second		TE OF INSERVICE INSP		a or Province of	
I, the undersigned, holding a valid commission i	ssued by the National Boar	rd of Boiler and Pressure Ver	ards	e of Flovince of	
North Carolina	ì	loyed by HSB Global Standa			of
Connecticut		pected the components descri			
measures described in this Owner's Report in ac	, and state that to the cordance with the requires	e best of my knowledge and l nents of the ASME Code, Se	belief, the Owner has perforction XI.	rmed examinations and take	a corrective
By signing this certificate neither the Inspector rein this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	or his employer makes and e Inspector nor his employe	y warranty, expressed or imp er shall be liable in any manr	olied, concerning the examiner for any personal injury	nations and corrective measu or property damage or a loss	ares described of any kind
IF Swan Orona T. Mw	an	Commissions NB11	473-NC1524, N-1	The state of the s	
Inspector's Signature		National Board, State, Provin			
Date $\lambda - 2$, 20)				

1. Owner _	Owner Duke Energy Carolinas, LLC				— Date <u>2/19/2015</u>				
_	<u>526 So</u>	uth Church Street, Charlotte, N	NC, 28201		- Sheet 1 of 2	: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			
2. Plant		McGuire Nuclear Station Name			Unit 2				
		12700 Hagers Ferry Road, H	Iuntersville, NC 28078		2113201-26		The state of the s		
		Address			Work Order # (or Repai	r/Replacemen	t Organization P.O. No., Jo	ob No., etc.)	
3. Work Perfo	ormed by	Duke Energy Carolinas, LLC Name			Type Code Symbol Stamp:				
		526 South Church Street, C	harlotte NC 28201-1006		Authorizatio	,	The same of the sa	A service of the service of the	
		Address			Expiration	Date: N	<u>'A</u>	<u> </u>	
4. Identificati	on of Syste	m CA - Auxiliary Feedwater							
		ruction Code ASME III on of Section XI used for Repa	ir/Replacement Activity		ition, Summer and Winter 2008 Addenda	Ado	lenda, N/A	Code Case	
(c) Applic	able Section	on XI Code Case(s) N/A							
6. Identificati	on of Com	ponents							
Name Compo		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-5	5578	Duke Energy	N/A	N/A	N/A	N/A	Installed	<u>No</u>	
		ementalisms to the following and reason companying grant and transfer representative and purpose grant in the company of the c							
		The state of the s							
*** ** * * ***	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second contract of					-		
	, ,	The second section of the second section section of the second section							
		And the second of the second o			Learning to the second				
7. Description	of Work	Add New Componer	nt/Part/Appurtenance/We	<u>ld</u>					
Additional E	Description	Added hanger 2MC	CA-CA-5578 per EC1039	63.			Annual Control of the		
8. Tests Cond oF Descrip	ucted: Hy	drostatic Pneumatic		· · · · · · · · · · · · · · · · · · ·	mpt Other Pres	sure	PSI Test Tem	ip.	
p	(op.10					-			

9. Remarks (Should Include the Following Infor	mation, as Applicable):			Sheet 2	of 2
	(nominal) System	n Class: ASME Class 3			
Weld Isometric Drawing No(s).: N/A			enterente en esta de la companya de	e en	
Flow Diagram No(s).:	N/A		arran erine and an first trace type arranged to the trace trace to the end of the end of the end are arranged and		and the second s
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5578			THE PARTY OF THE P	
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included else	where on NIS-2 Form:	EC103963		
· · · · · · · · · · · · · · · · · · ·	Applicable Man	ufacturer's Data Reports to be attac	ched		
		CATE OF COMPLIANC			
I certify that the statements made in the report a	re correct and that this conform	as to the requirements of the	ie ASME Code, Section XI.		
Type Code Symbol Stamp N/A					;
Certificate of Authorization No. N/A			Ex	xpiration Date N/A	 - - -
Signed FL Grass, Quality Assurance Technical	Specialist	18k		Date February 19	20 15
Owner or Owner's Desig		- man-			,
L					
	CERTIFICATE	OF INSERVICE INSPE	CTION		
I, the undersigned, holding a valid commission is	issued by the National Board of	f Boiler and Pressure Vess	el Inspectors and the State of	r Province of	
North Carolina	and employe	d by HSB Global Standar	ds		of
Connecticut	1		ed in this Owner's Report du	iring the period	
$\frac{5-21-19}{\text{to }2-23-1}$ measures described in this Owner's Report in accordance.	15, and state that to the best cordance with the requirement	st of my knowledge and be s of the ASME Code, Sect	lief, the Owner has performe ion XI.	ed examinations and take	n corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes any wa e Inspector nor his employer sh	arranty, expressed or implinall be liable in any manne	ed, concerning the examinate r for any personal injury or p	ions and corrective meass property damage or a loss	ures described s of any kind
JF Swan Jeropa 1.	war	Commissions NB1147	73-NC1524, N-1		
Inspector's Signature		National Board, State, Province	e, and Endorsements		i
Date $\mathcal{A} = \mathcal{A} = \mathcal{A}$, 20) [49				

1. Owner Duke E	Energy Carolinas, LLC			Date 2/19/2015	manore street in last light his (s parages,	and the same and t		
526 Sc	outh Church Street, Charlotte, N	C, 28201		- Sheet I of 2				
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road, Hi Address	untersville, NC 28078		2113202-13 Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)	
3. Work Performed by	<u>Duke Energy Carolinas, LLC</u> Name	3			Type Code Symbol Stamp: N/A			
	526 South Church Street, Ch Address	arlotte, NC 28201-1006	_ 	Authorization Expiration D	(X.T.)			
4. Identification of Syste	em CA - Auxiliary Feedwater							
(b) Applicable Edition	truction Code ASME III on of Section XI used for Repair on XI Code Case(s) N/A	r/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case	
6. Identification of Com	ponents							
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	<u>No</u>	
Complete Soft Communication of the Communication of				Constitution of the c				
	pures and an interview and the second and an experimental and an e					T. Company		
	Control of the contro							
						· · · · · · · · · · · · · · · · · · ·		
The second secon	THE TOTAL PRINCIPLE AND ADMINISTRATION OF THE PRINCIPLE AND ADMINI							
7. Description of Work	Add New Component	/Part/Appurtenance/We	<u>ld</u>					
Additional Description	Added hanger 2MC	A-CA-5560 per EC1039	63.					
8. Tests Conducted: Hyor Option (Option)	to the same the same of the community of the same of the community of the same of the community of the same of the same of the community of	Nominal Operation	Pressure Exer	mpt 🔽 Other 🗆 Pressi	ıre	PSI Test Tem	p	

9. Remarks (Should Include the Following Infor	rmation, as Applicable):			Sheet 2	of 2
Component Line Size: 3 in.		System Class: ASME Class	<u>3</u>		01
Weld Isometric Drawing No(s).: N/A					
Flow Diagram No(s).:	N/A		The final state of the state of		to an indicate and the second
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5560				
Other Applicable Information (e.g., W.O. N	o., EC No.) if not include	ed elsewhere on NIS-2 Form:	EC103963		
:	Applical	ble Manufacturer's Data Reports to be	attached		,
	CER	TIFICATE OF COMPLIA	NCE		
I certify that the statements made in the report a	are correct and that this co	onforms to the requirements o	f the ASME Code, Section X	I.	
Type Code Symbol Stamp N/A					}.
Certificate of Authorization No. N/A	magignages can be a discount annual of same forms are a discount supple.		1	Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical	l Specialist	Alline		Date February 19	, 20 15
Owner or Owner's Design		· / V / / · RV			, ================================
<u> </u>		· · · · · · · · · · · · · · · · · · ·			
		CATE OF INSERVICE INS			
I, the undersigned, holding a valid commission	issued by the National Bo	oard of Boiler and Pressure V	essel Inspectors and the State	or Province of	and the second s
North Carolina	and em	ployed by HSB Global Stand	dards		of
Connecticut	have in	aspected the components desc	ribed in this Owner's Report		
5-2/-/4 to 2-23- measures described in this Owner's Report in a	, and state that to t	the best of my knowledge and rements of the ASME Code, S	belief, the Owner has performection XI.	ned examinations and take	n corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes a ne Inspector nor his emplo	any warranty, expressed or im oyer shall be liable in any mar	aplied, concerning the examination of the examination of the concerning the examination of the exa	ations and corrective measur property damage or a loss	ures described s of any kind
JF Swan (Proma / 1	wan	Commissions NB1	1473-NC1524, N-1	**************************************	
Inspector's Signature		National Board, State, Prov		· · · · · · · · · · · · · · · · · · ·	
Date 2-23, 2	0 /5				
والمراجع					

1. Owner <u>Duke</u>	Energy Carolinas, LLC			Date 2/19/2015				
526.5	South Church Street, Charlotte, Address	NC, 28201		— Sheet 1 of 2	Ī			
2. Plant	McGuire Nuclear Station Name			Unit 2	_			
	12700 Hagers Ferry Road,	Huntersville, NC 28078		2113202-14				
	Addres	s		Work Order # (or Repa	ir/Replacemen	t Organization P.O. No., Jo	b No., etc.)	
3. Work Performed by	Duke Energy Carolinas, L. Name	Duke Energy Carolinas, LLC			Type Code Symbol Stamp: N/A			
	526 South Church Street (Charlotta NC 20201 100	6	Authorization	,	the second section of the second section in the second section in the second section is the second section in the section in the second section in the section in the second section in the secti	The state of the s	
		526 South Church Street, Charlotte, NC 28201-1006 Address			Expiration Date: N/A			
4. Identification of Sys	ctem CA - Auxiliary Feedwate	Γ						
	astruction Code ASME III tion of Section XI used for Rep	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Ad	denda, N/A	Code Case	
(c) Applicable Sect	tion XI Code Case(s) N/A							
6. Identification of Con	mponents							
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	
and the second	The same of the sa					ent ent ent ent		
and the second described and provided benefitied that	**************************************							
A CONTRACTOR OF THE PROPERTY O	The state of the s	A CONTROL OF THE CONT		A STATE OF THE PROPERTY OF T				
7. Description of Work	Add New Compone	ent/Part/Appurtenance/W	eld					
Additional Description	Added hanger 2M	CA-CA-5561 per EC103	963.					
8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Operation	on Pressure Ex	cempt . Other Pres	sure	PSI Test Tem	p	
^o F Description (Opt	tional):		,					

9. Remarks (Should Include the Following Infor	mation, as Applicable):			Sheet 2	of 2
	(nominal) Sys	tem Class: ASME Class 3			
Weld Isometric Drawing No(s).: N/A		er den Stade (1966) er den men vermen ist værfillend av skreveld væren om vill være den med sende bledt en (4 🗈 🕾		and the state of t	and the state of t
Flow Diagram No(s).:	N/A		encommunication designation of the deposite of the communication of the		ration of a first time to the transfer of the second section of the
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5561		n bungan ya samba a kan garawan ungani magama magama danki kanki kayah da abaman da abbi mbanan ya garakan da		
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included e	lsewhere on NIS-2 Form:	EC103963		
<u> </u>	Applicable N	Manufacturer's Data Reports to be at	tached		
	CERTI	FICATE OF COMPLIAN	ICE		
I certify that the statements made in the report a	re correct and that this confo	orms to the requirements of	the ASME Code, Section XI	· ·	
Type Code Symbol Stamp N/A					
Certificate of Authorization No. N/A			ĭ	Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical	Specialist	To Hears-		Date February 19	20 15
Owner or Owner's Desig					,
		TE OF INSERVICE INSE			
I, the undersigned, holding a valid commission	issued by the National Board	d of Boiler and Pressure Ve	ssel Inspectors and the State	or Province of	- dentifierde brancas reaser - anapy
North Carolina	and emplo	yed by HSB Global Stand	ards		of
Connecticut	have inspe	ected the components descr	ibed in this Owner's Report	during the period	
$\frac{5-21-14}{\text{measures described in this Owner's Report in action}}$	and state that to the coordance with the requirement	best of my knowledge and ents of the ASME Code, Se	belief, the Owner has perform ection XI.	ned examinations and taken	n corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes any le Inspector nor his employer	warranty, expressed or impressed or impresse	olied, concerning the examination of the concerning the examination of the concerning the examination of the concerning the concerning the examination of the concerning the conc	ations and corrective measur property damage or a loss	ares described of any kind
JF Swan / cropil.	van	Commissions NB11	473-NC1524, N-1		
Inspector's Signature		National Board, State, Provi			ı
Date 2-23, 2	$2\Sigma_0$				

1. Owner	er Duke Energy Carolinas, LLC				— Date <u>2/19/2015</u>		
	526 South Church Street, Charlot	te, NC, 28201		Sheet $\frac{1}{1}$ of $\frac{2}{2}$			
2. Plant	McGuire Nuclear Station Na			Unit 2			
	12700 Hagers Ferry Roa	d, Huntersville, NC 28078		2113202-15			
		iress		Work Order # (or Rep	pair/Replacemen	nt Organization P.O. No., J	ob No., etc.)
3. Work Perform		Duke Energy Carolinas, LLC Name			Stamp: N	/A	í
			<i>r</i>	Authorizati	ion No.: N	/A	
		526 South Church Street, Charlotte, NC 28201-1006 Address			n Date: N	/A	
4. Identification	of System CA - Auxiliary Feedw	ater					
5. (a) Applicab	le Construction Code ASME III le Edition of Section XI used for R			dition, Summer and Winter he 2008 Addenda	Ad	denda, N/A	Code Case
(c) Applicab	le Section XI Code Case(s) N/A						
6. Identification	of Components		e i				
Name of Componer		Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2MAC-CA-556	Duke Energy	N/A	N/A	N/A	N/A	Installed	No
e de la companya della companya della companya de la companya della companya dell						1	
		in				1	
7. Description of	f Work Add New Compo	onent/Part/Appurtenance/W	<u>eld</u>		*		
Additional Des	cription Added hanger 2	MCA-CA-5562 per EC103	963.				
8. Tests Conduc	ted: Hydrostatic Pneumati	ic Mominal Operation	on Pressure \(\sum_{\text{Ex}}	empt V Other Pre	essure	PSI Test Ten	ıp
^o F Descriptio	n (Optional):						

Component Line Size: 3	et 2 of 2
Weld Isometric Drawing No(s).: N/A Since Size: 3in. (nominal) System Class: ASME Class 3	
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.): 6-14-14-14-14-14-14-14-14-14-14-14-14-14-	
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 Afflow Date February 1	9 20 15
Owner or Owner's Designee, Title	, 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	
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 22-23-15, and state that to the best of my knowledge and belief, the Owner has performed examinations and measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective noing 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 arising from or connected with this inspection.	neasures described loss of any kind
JF Swan grove Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date 2-23, 20 15	

1. OwnerDi	ıke Energy Carolinas, LLC			— Date 2/19/2015		Ì	
52	26 South Church Street, Charlotte, Address	NC, 28201			7		
2. Plant	McGuire Nuclear Station Name			Unit 2	_		
	12700 Hagers Ferry Road, I			2113202-16			
2 Wash Parkage d	Address	_		Work Order # (or Repa	uir/Replacemen	t Organization P.O. No., J	ob No., etc.)
3. Work Performed	Name	Duke Energy Carolinas, LLC Name			Stamp: N		
	526 South Church Street, C Addres		96	Authorization Expiration	5.		
4. Identification of	System CA - Auxiliary Feedwate	r					
5. (a) Applicable (Construction Code ASME III Edition of Section XI used for Rep			Edition, Summer and Winter the 2008 Addenda	Ado	lenda, N/A	Code Cas
(c) Applicable S	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
a land							
						T T T T T T T T T T T T T T T T T T T	
,							
						To the state of th	
The same of the sa							
7. Description of W	Vork Add New Compone	ent/Part/Appurtenance/W	<u>'eld</u>				
Additional Descrip	ption Added hanger 2Me	CA-CA-5563 per EC103	963.				
8. Tests Conducted:	: Hydrostatic Pneumatic	Nominal Operation	on Pressure E	cempt Other Pres	ssure	PSI Test Ten	ар.
°F Description (Optional):						

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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.	EC103963	
·	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the ASME C	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 78 Amy	Date February 19 , 20 15
Owner or Owner's Design		
	CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Roiler and Pressure Vessel Inspecto	ors 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- measures described in this Owner's Report in a	, and state that to the best of my knowledge and belief, the Occordance with the requirements of the ASME Code, Section XI.	
	nor his employer makes any warranty, expressed or implied, concern the Inspector nor his employer shall be liable in any manner for any p	Cromit Highly of property
JF Swan / Prome 1. 1	Commissions NB11473-NC1524	4, N-1
Inspector's Signature	National Board, State, Province, and Endorse	ements
Date 2-23, 2	0,25	

1. Owner Duke I	Energy Carolinas, LLC			— Date 2/16/2015			
526 Sc	outh Church Street, Charlotte, 1	NC, 28201		Sheet $1 \text{of } 2$	}		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, F			2113202-19		na miniminina a na aith na aith a dha a' inn ann a thaille, miniminin dan na manna a gair, aigh na ghaille, amhanair a an	Secretary and the secretary of the secre
	Address			Work Order # (or Repai	r/Replacemen	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, LL</u> Name	С		Type Code Symbol S		to the second that the second	
	526 South Church Street, C	harlotte NC 28201-100/	5	Authorizatio	,		- An area
	Address			Expiration	Date: N	'A	
4. Identification of Syst	em CA - Auxiliary Feedwater				and the property of the second second to decrease	and the orders and analysis to come an extension and personal and personal and an extension of come and an extension of the company of the co	
	struction Code ASME III on of Section XI used for Repa	ir/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Secti	on XI Code Case(s) N/A		See - 5-1-3-5 Varieties (Varieties (Varietie	na om samme forter ir victor on artis i tot are till medical service for the total of the debt of the control of	to the state of th		
6. Identification of Com	ponents				_		
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
A THE SECOND STATE OF THE	The service of the se					-	
1	The state of the s	The state of the s	Section 1 Sectio		1		
The second of th							
					1	-	
	The second design of the secon			A TAIL SAME TO A CONTROL OF THE SAME TO SAME THE SAME TO SAME THE SAME TO SAME THE SAME TO SAME THE SA		7	
7. Description of Work	Add New Componer	nt/Part/Appurtenance/We	eld		·		.
Additional Description	Added piping per E	C103963.		adaga kasiring 1,500 tahu,50,50 tahun ay 185,500 ay 1860 tahun ay 1860 tahun ay 1860 tahun ay 1860 tahun ay 18	hold the shooth sense show reasons was decreased as	I have a sound a post of age the state of a post of the sound and a sound of the so	
8. Tests Conducted: H	ydrostatic Pneumatic [Nominal Operation	n Pressure 🔽 Ex	empt Other Pres	sure *760	PSI Test Tem	p. 90.5
^o F Description (Option	onal): tests performed per pro-	cedure MP/0/A/7650/07	6 (* test parameters a	e within operational design pe	r operation		

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2C	A63	
Flow Diagram No(s).:	MCFD-2592-01.01	
Support/Restraint Sketch/Drawing No(s).:	N/A	
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included elsewhere on NIS-2 Form:	EC103963
!	Applicable Manufacturer's Data Reports to be att	ached
	CERTIFICATE OF COMPLIAN	
I certify that the statements made in the report a	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 To May	Date February 16 , 20 15
Owner or Owner's Desig	nec, Title	
	CERTIFICATE OF INSERVICE INSP	
A REPORT OF THE PROPERTY OF TH	issued by the National Board of Boiler and Pressure Ves	ssel Inspectors and the State or Province of
North Carolina	and employed by HSB Global Standa	
Connecticut	have inspected the components descri	ibed in this Owner's Report during the period
measures described in this Owner's Report in ac	, and state that to the best of my knowledge and becordance with the requirements of the ASME Code, Secondary	pelief, the Owner has performed examinations and taken corrective ction XI.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither tharising from or connected with this inspection.	nor his employer makes any warranty, expressed or imple Inspector nor his employer shall be liable in any mann	lied, concerning the examinations and corrective measures described ner for any personal injury or property damage or a loss of any kind
JF Swan Jorove J. Jwa	Commissions NB11	473-NC1524, N-1
Date 2 - / 8 , 2	National Board, State, Provir	nce, and Endorsements

1. Owner <u>Duke</u>	Energy Carolinas, LLC			— Date 2/16/2015		transport from any series of series (see Series of Serie	
526.5	South Church Street, Charlotte, Address	NC, 28201		— Sheet $1 of 2$		•	
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, I			2118411-17		om i na mana dha chaireann dh' ann agus ghairean de chair shi che che d' dhèir ann ambhre a che	***
3. Work Performed by	Name 526 South Church Street, C	Charlotte, NC 28201-100	6.	Type Code Symb	5.7	A	bb No., etc.)
4. Identification of Sys	Addresstem NV - Chemical and Volum	_	rier formining semile here are min, who was no design after all and an expension of the semile semil	Laphat	ion Date.	TO CHARLES OF THE STREET, IN THE STR	
(b) Applicable Edi	astruction Code ASME III tion of Section XI used for Repution XI Code Case(s) N/A	air/Replacement Activity		dition, Summer and Wintenberg 2008 Addenda	r Ad	denda, <u>N/A</u>	Code Case
6. Identification of Con			· · · .			i	
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	<u>No</u>
A CONTRACTOR AND A CONT	Tract Made to make compared to page of the compared to the c						
	The second secon						
1	The state of the s			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
A CONTRACTOR OF THE STREET	At the strong water and	The state of the s		The state of the s			
7. Description of Work	Replaced Compone	nt/Part/Appurtenance					
Additional Description	n Replaced spring ca	n and the bolting materia	al on hanger 2MCA-N	V-5908.			
8. Tests Conducted: Opt oF Description (Opt	Employed the West Comments or with a part of the comment of the co	Nominal Operation	on Pressure	empt ☑ Other ☐ F	ressure	PSI Test Tem	np

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{\sqrt{2}}$ of $\frac{2}{\sqrt{2}}$
	(nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: N/A		To come of the final transfer from the factor of the facto
Flow Diagram No(s).:	MCFD-2554-04.00	
Support/Restraint Sketch/Drawing No(s).:	2MCA-NV-5908	AS ON A 1/4 to detail of the section
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included elsewhere on NIS-2 Form:	
<u> </u>	Applicable Manufacturer's Data Reports to be attac	hed
	CERTIFICATE OF COMPLIANC	
I certify that the statements made in the report a	are correct and that this conforms to the requirements of th	e 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 Albania	Date February 16 20 15
Owner or Owner's Desig		
<u> </u>		<u> </u>
	CERTIFICATE OF INSERVICE INSPE	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vesse	
North Carolina	and employed by HSB Global Standard	dsof
Connecticut	have inspected the components describe	ed in this Owner's Report during the period
$\frac{12-5-14}{\text{measures described in this Owner's Report in according to } 100000000000000000000000000000000000$	and state that to the best of my knowledge and be coordance with the requirements of the ASME Code, Section 2.	lief, the Owner has performed examinations and taken corrective ion XI.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes any warranty, expressed or implie the Inspector nor his employer shall be liable in any manner	ed, concerning the examinations and corrective measures described r for any personal injury or property damage or a loss of any kind
JF Swan I crove 1. 1	Commissions NB1147	73-NC1524, N-1
Date	National Board, State, Province	

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

		As Required by the	ne Provisions of the ASME (Code Section XI			
1. Owner	Duke Energy Carolinas, LLC			Date 2/17/2015	-		
_	526 South Church Street, Charlot Address	te, NC, 28201		Sheet $\boxed{1}$ of $\boxed{2}$			
2. Plant	McGuire Nuclear Station	<u>1</u> me		Unit 2			
		d, Huntersville, NC 28078		2118411-19	:-/D 1	t Organization P.O. No., Jo	
3. Work Perfor	med by <u>Duke Energy Carolinas</u> , Na	LLC		Type Code Symbol : Authorizatio	Stamp: $\frac{N}{N}$	/A	ob No., etc.)
		t, Charlotte, NC 28201-100 dress	<u> </u>	Expiration	Date: N/	/A	
4. Identificatio	n of System NV - Chemical and Vo	olume Control					
(b) Applica	able Construction Code ASME III able Edition of Section XI used for R	epair/Replacement Activit		dition, Summer and Winter he 2008 Addenda	Add	denda, N/A	Code Case
	ible Section XI Code Case(s) N/A		 				
Name of Compon		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
1	A STATE OF THE PROPERTY OF THE					- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
						The state of the s	
Commence of the commence of th	A Secretary Control of the Control o						
7. Description	of Work Add New Comp	onent/Part/Appurtenance/W	/eld				
Additional De	escription Added Piping,	valves 2NV337 and 2NV37	72 per EC108150.				
8. Tests Condu	cted: Hydrostatic Pneumat	ic Nominal Operation	on Pressure . Ex	empt Other Pres	sure 76	PSI Test Ten	np. 106
°F Descripti	ion (Optional): test performed per p	rocedure MP/0/A/7650/07	<u>6.</u>				

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	spiration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	Date February 17, 2015
Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION	n
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of	r Province of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report de	uring the period
3-3-14 to $2-18-15$, and state that to the best of my knowledge and belief, the Owner has perform	ed 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 examinat in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or parising from or connected with this inspection.	ions and corrective measures described property damage or a loss of any kind
JF Swan Lerone f. Juan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date $2-/8$, 20 15	

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 co	ertified by BNL IND		USTRIAL PARK ROA	ND, VERNON, CT, 06068
2 Manufactured des [NIKE POWER CO	PO BOX 1015, CHAR		015
2. Manufactured for	VOINE I MAIN ON	(neme one) addre		<u> </u>
3. Location of Installati	on MCGUIRE SIT			NTERSVILLE, NC 28078
			and address?	
4. Model No., Series No.	a., or TypeVALVE	Drawing ABV-A2	-20-0010 _{Ray} , C	CRN
5, ASME Code, Section	n III. Pisalejem 1:	2007 2008	2	
or wante const decree	A life presidents as were	(ecition) (eddende		(Code Case no.)
6. Pump or valva_VA	LVE Kern	inel Inlet size 2"	Outlet size	
64	170 TV240	(in.)	ON 470 TV240	on.1 Softing SA-453 GR. 660
7. Material: Body 3	479 TY316 Bon	SA479 TY316 . O	SA479 TY318	Johing Sharton Grit, 600
(a)	(Da)	(c)	(4)	łeż
Cart.	Nat'l	Body	Borenet	Diak
Hotder's	Goerd	Series	Serial	Serial
Serie No.	No.	Ma.	Ho,	No.
A120803-1-11 THRU	4) /	855E	676E	654E
				
				<u> </u>
				
				
· · · · · · · · · · · · · · · · · · ·				
				
				·
				
* Supplementel Information	in form of Sets, statches	, or drawings May be used provi	idea) (1) aise is 8% × 11, 12) i	information in literas 1 through 4

(12/88) This form (£00037) may be obtained from the Order Dept., ASME, 22 Lew Drive, Son 2300, Fairfield, NJ 07007-2300.

2006044/5/6/7

^{*}Supplemental information in form of Sate, statches, or drawings may be used provided (1) size is 8% x 11, (2) interestion in items 1 through 4 on this Osta Report to included on each about, (3) each elect is numbered and the number of always is recorded at the top of this form.

FORM NPV-1 (Bock -- Pg. 2 of _2_)

	Certificate Holder's Serial R	6. A120803-1-(1 Th
8. Design conditions	*F or valve pressure class	300
(pressure) (temperature)		•
9. Cold working pressure 720 pel at 100°F	•	
C. Hydroetede test 1100 pei. Diak differential test pre	800	psi
1. Remerks:		
CERTIFICATION OF	DERIGN	·
Design Specification certified by JESSE M. HAWKINS	P.E. State NC Reg	no. 20159
Design Report certified by	_ P.E. StateReg	1
CERTIFICATE OF COL	PLIANCE	
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.	11/1	0/13
A Cardings of Authorization No.	Expires	
Date 10/11/12 Name BNL INDUSTRIES, INC.	Signal //	<u></u>
Of Certificate Holder)	(authorized rep	reportative
	_	
CERTIFICATE OF INI	PECTICIO	
f, the undersigned, holding a valid commission issued by the National the State or Province of	onel Sound of Boller and Pressure V	Veget Inspectors and AMERICA INS
	and employed by	
	* * * * * * * * * * * * * * * * * * * *	
structed this pump, or valve, in accordance with the ASME Code, Se	ction III, Division 1.	ļ
By signing this certificate, neither the inspector not his employer m		
component described in this Deta Report. Furthermore, neither the in		
any personal injury or property demage or a loss of any kind arising fr	•	
Date 1/A Signed (Authorized Impactor) Commission	one <u>N 8 //00 à (N,A,B) N ?</u> (Nex'1, Bit, Grail, amparagnants) an	d etacs or prov. and no.1

(1) For manually operated values only.

2006044/5/6/7

1. Owner <u>Duke</u>	e Energy Carolinas, LLC			— Date 10/14/2015	·	·	
526	South Church Street, Charlotte, No. Address	C, 28201		— Sheet <u>1</u> of <u>2</u>			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	intersville, NC 28078		2135947-05			
	Address			Work Order # (or Repair/	Replacement	t Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	y <u>Duke Energy Carolinas, LLC</u>	· · · · · · · · · · · · · · · · · · ·		Type Code Symbol St	amp: N/	'A	·
				Authorization	No.: No.:	'A	·
	526 South Church Street, Ch Address	arlotte, NC 28201-1006		Expiration I	7. Y		
4. Identification of Sy	stem NV - Chemical and Volume	e Control					
 (a) Applicable Co (b) Applicable Ed 	nstruction Code ASME III ition of Section XI used for Repair			ition, Summer and Winter e 2008 Addenda	Add	lenda, N/A	Code Case
() 11	ction XI Code Case(s) N/A				-:		
6. Identification of Co	omponents						T
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	Removed	Yes
2NV483	Dresser	TE09053	264	N/A	1978	Installed	Yes
<u>.</u>	and the second s	a graduation and the second	. Comment of the second of the) 			
·	<u> </u>	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	· · · · · · · · · · · · · · · · · · ·	1	ļ	_
		in the state of th					<u> </u>
7. Description of Wor	rk Replaced Component	/Part/Appurtenance					•
Additional Descripti	on Replaced valve 2NV	483 and the bolting mat	terial in the flanges to	install it.	· · · · · ·		·
8. Tests Conducted:				empt Other Press	ure	PSI Test Ten	np
^o F Description (O _I	ptional): Test performed per proc	egure MP/U/A/1/UU/U45	<u>. </u>				

9. Remarks (Should Include the Following Infor	mation, as Applicable):		Sheet $\underline{2}$ of $\underline{2}$
Component Line Size: $1 \frac{1}{2} \times 2$ in.		n Class: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2N	V158 & 161		and the second s
Flow Diagram No(s).:	MCFD-2554-02.00		
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. No		ewhere on NIS-2 Form:	
and the second of the second o	e to assess a set of the owner.	en de la companya de	
	Applicable Ma	nufacturer's Data Reports to be attached	
	CERTIFI	CATE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this confor	ms to the requirements of the ASME Code, S	Section XI.
T. C. 1- 9 - 1 19	e e e la companyo de entre despresa de la companyo		
Type Code Symbol Stamp N/A			·
<u></u>			• • • • • • • • • • • • • • • • • • •
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist	JPY	October 14
Owner or Owner's Design		72 mise	Date October 14 , 20 15
<u> </u>			
-,	CERTIFICATI	E 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 employ	ed by HSB Global Standards	of
Connecticut	•	ted the components described in this Owner	
9-17-15 to 10-16-	· · · · · · · · · · · · · · · · · · ·	_	nas performed examinations and taken corrective
measures described in this Owner's Report in ac	cordance with the requirement	its of the ASME Code, Section XI.	ms personned examinations and taken contourve
Desiration discountificate without a Transaction			
in this Owner's Report. Furthermore, neither the	e Inspector nor his employer:	varranty, expressed or implied, concerning the shall be liable in any manner for any persona	ne examinations and corrective measures described al injury or property damage or a loss of any kind
arising from or connected with this inspection.		-	and the second second of a root of any range
[] [] [] [] [] [] [] [] [] []	V	, otherwise plants and the second	
JF Swan Vove Inspector's Signature	wan	Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements	
mspector's Signature		National Board, State, Province, and Endorsements	
Date / / 0 - / 6	0_/5		
, ,			



FORM NY-1 N CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES' (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION 111, DIV. 1)

		(HAME AND ADDRES					
MANUFACTURED FOR MI	11 Power	Supply Co.,P.	0. Box 13	39, Charl	otte, NC	28232	٠
	_ •	(NAME AND ADDRES	S OF PURCHA	SER OR DWNER.))	4.5	
LOCATION OF INSTALLA	TION Duke	Power Co., McG	uire Nucl	ear Sta.,	Cowans For	rd, NC	
i	•	•	3)	264			
		INC3004 AVING NO.)	(N	AT-L-BRB.NO.)	ZVE	L978 Ar Built)	
(CRN)	•	•	•	, -		•	
VALVE 1-1/2/1910	-30F/S4-1	L-XRL1-NC3004	· IDENTIFY	INB NOS.		<u> </u>	
	L NO., SERIE		7		RITIFICATE HOLD	BERS' SERIAL.	NO.
TYPE Safet	y Relief		Ass 2			 _	
•	•	FETY RELIEF; PILOT;					
ORIFICE SIZE	.650	NOMINAL I	HLET SIZE	1-1/2"	· OUTLET SIZE	2"	_,
	INCH			1 NCH		inch	
SET PRESSURE (PSIG)_		150	_ RATED	TEMPERATURE _	225		_0F
	0607	• •	10			7 5	•
STAMPER CAPACITY	2627	LBS/HR. · @	, TO % DA	ERPRESSURE BL	LUNDUNN (PSIG)	7	
STAMPED CAPACITY	SAT. STEAM	LBS/HR. · · ·	10 % OV	ERPRESSURE BL	.UNDUNN (PSIG)		···
	SAI.SICAM			•			٠.
HYDROSTATIC TEST (PS	SAI.SICAM			DUTLET	N/A	***	E Né
HYDROSTATIC TEST (PS	SAI.SIEAN			DUTLET		***	ENS
HYDROSTATIC TEST (PS	SIG) INLET_	**See Below		OUTLET(APPLICABLE	N/A TO VALVES FOR	*** I 'GLOSEO SYSTI	ENS
HYDROSTATIC TEST (PS	SIG) INLET_	**See Below		OUTLET(APPLICABLE	N/A TO VALVES FOR	*** I 'GLOSEO SYSTI	EMŚ
HYDROSTATIC TEST (PS PRESSURE RETAINING P	SIG) INLET_	**See Below		OUTLET	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE	*** I 'GLOSEO SYSTI	EMS
HYDROSTATIC TEST (PS PRESSURE RETAINING P	SALSIEAN SIG) INLET_ PIECESAAD53	**See Below		OUTLET	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M	*** I 'GLOSEO SYSTI	EMS
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE	SIG) INLET_	**See Below		OUTLET	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE	*** I 'GLOSEO SYSTI	EMS
HYDROSTATIC TEST (PS PRESSURE RETAINING P	SALSIEAN SIG) INLET_ PIECESAAD53	**See Below		OUTLET	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M	*** CLOSEO SYSTI	ENS
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC	AAD53 AAE25 AAA58 X16110	**See Below SERIAL NO. OR IDENTIFICATION		OUTLET	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M	*** CLOSEO SYSTI	EWS
HYOROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC	AAD53 AAE25 AAA58 X16110	**See Below SERIAL NO. OR IDENTIFICATION		OUTLET	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316	*** I CLOSEO SYSTI ON	
HYOROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC	AAD53 AAE25	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA479	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316 Type 316/S	*** I CLOSEO SYSTI ON	
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW	AAD53 AAE25 AAA58 X16110 G9345/G	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA182 SA479 SA479	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316	*** I GLOSEO SYSTI ON SA182 Gr.	
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC SPRING WASHERS	AAD53 AAE25 AAA58 X16110 G9345/G	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA182 SA479 SA479	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316 Type 316/S Type 316	*** B CLOSED SYSTION SA182 Gr.	
HYOROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC SPRIND WASHERS ADJUSTING SCREW SPINDLE Head	AAD53 AAE25 AAA58 X16110 G9345/G G9380 G9380	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA182 SA479 SA479	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316 Type 316/S Type 316 Type 316	*** B CLOSED SYSTION SA182 Gr.	
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW SPINGLE Head SPRING	AAD53 AAE25 AAA58 X16110 G9345/G G9380 G9380	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA182 SA479 SA479	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316 Type 316/S Type 316 Type 316	*** B GLOSEO SYSTION SA182 Gr.	
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW SPINDLE Head SPRING BOLTING OTHER PIECES	AAD53 AAE25 AAA58 X16110 G9345/G G9380 G9380 90974	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA479 SA479 SA479 ASTN A	N/A TO VALVES FOR AL SPECIFICATION OF GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316 Type 316/S Type 316 Type 316 A313 Type 3	*** B GLOSEO SYSTION SA182 Gr.	
HYDROSTATIC TEST (PS PRESSURE RETAINING P BODY BONNET OR YOXE SUPPORT RODS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW SPINDLE Head SPRING BOLLING	AAD53 AAE25 AAA58 X16110 G9345/G G9380 G9380 90974	**See Below SERIAL NO. OR IDENTIFICATION		CAPPLICABLE MATERIA INCL. SA351 SA351 SA182 SA182 SA479 SA479 SA479 ASTN A	N/A TO VALVES FOR AL SPECIFICATION TYPE OR GRADE Gr. CF8M Gr. CF8M Gr. F316 Gr. F316 Type 316/S Type 316 Type 316	*** B GLOSEO SYSTION SA182 Gr.	

*SUPPLEMENT SHEETS IN FORM OF LISTS SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8-1/2" A 11"
(2) INFORMATION IN ITEMS 1-2 ON THIS DATA REPORT IS INCLUDED ON EACH SHEET, AND (3) EACH SHEET IS HUMBERED AND NUMBER OF SHEETS IS RECORDED AT TOP OF THIS FORM.

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

FORM NY-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 HUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1. 1971
EDITION, ADDENDA Summer 1973, CODE CASE NO. N/A
DATE 3-27-78 SIGNED Dresser IVID BY Print pal Q.A. Engineer
OUR ASHE CERTIFICATE OF AUTHORIZATION NO. N-1747. TO USE THE NV
SYMBOL EXPIRES May 20, 1980 (NV)
(DATE)
(UAIE)
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
PE STATE North Carolina REG. NO. 4870
STRESS REPORT CERTIFIED BY
RE 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 STEEN BOLLER 1. & 1.
COMPANY OF HARTFORD, COMM., 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 MARRADMY, EXPRESSED OR IMPLIED
CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT. FUTHERWORE, HEITHER THE INSPECTOR HOR HIS EMPLOYER
SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAWAGE OR A LOSS OF ANY KIND ARISINS
FROM OR CONNECTED WITH THIS INSPECTION.
DATE March 27 18.78
SIGNED S.C. Markey COMMISSIONS National Board No. 7779
(INSPECTOR) (NAT'L.BD,STATE PROV.AND NO.)

1. Owner	Owner Duke Energy Carolinas, LLC							
	526 South Church Street, Charlotte Address	, NC, 28201		— Date 2/16/2015 — Sheet 1 of 2	-			
2. Plant	McGuire Nuclear Station Name	e		Unit 2				
	12700 Hagers Ferry Road	Huntersville, NC 28078		2138093-02				
	Addre	ess		Work Order # (or Repai	r/Replacemen	t Organization P.O. No., Jo	b No., etc.)	
3. Work Perform	ed by <u>Duke Energy Carolinas, I</u>			Type Code Symbol S	Type Code Symbol Stamp: N/A			
	526 South Church Street,	Charlotte NC 28201-100	6	Authorizatio	gunuan			
	Addr.		,	Expiration	Date: N	<u>/A</u>		
4. Identification	of System VG - Diesel Generator I	Engine Staring Air					Quantitativi (
	e Construction Code ASME III e Edition of Section XI used for Re	pair/Replacement Activity		dition, Summer and Winter ne 2008 Addenda	Add	denda, N/A	Code Case	
(c) Applicabl	e Section XI Code Case(s) N/A					-		
6. Identification	of Components							
Name of Componen	t 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	
Control of the money of the control								
						Y // management		
7. Description of	Work Replaced Compon	ent/Part/Appurtenance						
Additional Desc	eription Replaced bonnet	on valve 2VG65.						
	ed: Hydrostatic Pneumatic	<u> </u>		empt Other Pres	sure	PSI Test Tem	.p.	
^o F Description	n (Optional): Test performed per p	rocedure MP/0/A/7700/04	<u>5.</u>					

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\boxed{2}$ of $\boxed{2}$
Component Line Size: 2 in. (nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2VG5	
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 Expirati	ion Date N/A
Signed FL Grass, Quality Assurance Technical Specialist Owner or Owner's Designee, Title	February 16, 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 Proving North Carolina And employed by HSB Global Standards	
and employed by	of
Connecticut have inspected the components described in this Owner's Report during	•
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	iminations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations a in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or proper arising from of connected with this inspection.	nd corrective measures described rty damage or a loss of any kind
JF Swan (Lrove) Lwaw Commissions NB11473-NC1524, N-1	
Date Inspector's Signature National Board, State, Province, and Endorsements	

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 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2148322-10 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Pacific 0241-6 N/A 1977 Yes 2CF119 Corrected 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced disc and body to bonnet bolting material in valve 2CF119.

Nominal Operation Pressure

Exempt

Other [

Pressure _____

Test Temp.

8. Tests Conducted: Hydrostatic

Pneumatic

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

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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:	
and the second of the second o	
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	
Type Code Symbol Stamp N/A	
	NT/A
Certificate of Authorization No. N/A Expiration	on Date N/A
Signed FL Grass, Quality Assurance Technical Specialist Da Da	october 13 , 20 15
Signed FL Grass, Quanty Assurance Technical Specialist (15) [Mean Designed Owner or Owner's Designee, Title	ite October 13 , 20.22
<u> </u>	
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 Prov	ince of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during t	
$\frac{9-24-15}{10-14-15}$ to $\frac{10-14-15}{10-14-15}$, and state that to the best of my knowledge and belief, the Owner has performed example.	•
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	Minations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations a	nd 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 proper arising from/or connected with this inspection.	ty damage or a loss of any kind
JF Swan Jerove L. Lwan Commissions NB11473-NC1524, N-1	· · · · · · · · · · · · · · · · · · ·
Inspector's Signature / National Board, State, Province, and Endorsements	

1. Owner <u>Duke E</u>	wner Duke Energy Carolinas, LLC			- Date 10/13/2015				
526_So	uth Church Street, Charlotte, N Address	IC, 28201		— Sheet <u>1</u> of <u>2</u>	_			
2. Plant	McGuire Nuclear Station			Unit 2				
	12700 Hagers Ferry Road, H	untersville, NC 28078		2148323-10 Work Order # (or Repa	ir/Renlacement	Organization P.O. No., Jo	oh No. etc.)	
3. Work Performed by	3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name 526 South Church Street, Charlotte, NC 28201-1006			Type Code Symbol S	Type Code Symbol Stamp: N/A Authorization No.: N/A			
	Address	narlotte, NC 28201-1006		Expiration	,ii 140			
4. Identification of Syste	m CF - Feedwater			and a second				
(b) Applicable Edition	ruction Code <u>ASME III</u> on of Section XI used for Repair on XI Code Case(s) <u>N/A</u>		19 <u>71</u> Edi	ition, Summer and Winter		lenda, <u>N/A</u>	Code Case	
6. Identification of Com	ponents							
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	
					<u> </u>	<u> </u>		
						 	-	
L	in the second second	*** ** ** ** * * * * * * * * * * * * *		<u>.]</u>	<u> </u>			
7. Description of Work	Replaced Componen	t/Part/Appurtenance						
Additional Description	Replaced disc and b	oody to bonnet bolting ma	aterial in valve 2CF11	8.				
8. Tests Conducted: H	ydrostatic Pneumatic nonal): Test performed per proc			mpt Other Pres	ssure	PSI Test Ten	np	

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\underline{2}$ of $\underline{2}$
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:	
and the second of the second o	
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	i. _.
Type Code Symbol Stamp N/A	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	Date October 13 , 20 15
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	~ .
$\frac{9-24-15}{10-13-15}$ to $\frac{10-13-15}{10-13-15}$, and state that to the best of my knowledge and belief, the Owner has perform	ned 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 examination this Owner's Report. Furthermore, neither, the Inspector nor his employer shall be liable in any manner for any personal injury or	ations and corrective measures described
arising from or/connected with this inspection.	property damage of a loss of any kind
JF Swan Jeropel T. Juan Commissions NB11473-NC1524, N-1	en e
Inspector's Signature National Board, State, Province, and Endorsements	
Date $10-13$. 2015	
, so the second	

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 of 2 Sheet 2. Plant McGuire Nuclear Station Unit 2 Name 2148578-01 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A Expiration Date: 4. Identification of System NC - Reactor Coolant 1971 Edition, Summer and Winter Addenda, N/A 5. (a) Applicable Construction Code ASME III 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Duke Energy 4424 N/A N/A N/A Yes 2MCR-NC-4082 Removed Duke Energy N/A Yes 39528 N/A N/A Installed 2MCR-NC-4082 Duke Energy 6746 N/A N/A Yes N/A Removed 2MCR-NC-4082 N/A Duke Energy 39529 N/A N/A Installed <u>Yes</u> 2MCR-NC-4082 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced snubbers on hanger 2MCR-NC-4082 Exempt Other [8. Tests Conducted: Hydrostatic Pneumatic . Nominal Operation Pressure Pressure **PSI** Test Temp. Description (Optional):

9. Remarks (Should Include the Following Infor			Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class: <u>ASME</u>	Class 1	
Weld Isometric Drawing No(s).: N/A			The second section of the section of th
Flow Diagram No(s).:	MCFD-2553-01-00	Managaran (1970) of a Mark of the Confession of the State	
Support/Restraint Sketch/Drawing No(s).:	2MCR-NC-4082		
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2	Form:	
	Applicable Manufacturer's Data Repo	rts to be attached	
	CERTIFICATE OF COM	IPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the requirer	nents of the ASME Code, Section ?	XI.
Type Code Symbol Stamp N/A		es institute and constructive and constructive and constructive and an extension and constructive and an extension and an ext	
IVA			
Certificate of Authorization No. N/A	to graft finish a summan de des als suis defende au signa conde de la tratación de finis de des finada antica de administrativa de la tratación de la tratació	Parist V. d. T.	Expiration Date N/A
		و المراجعة ا	
Signed FL Grass, Quality Assurance Technical		<u></u>	Date October 8 , 20 15
Owner or Owner's Desig	nee, Title		
		TO ANORECENON	
I the undersigned holding a valid commission	CERTIFICATE OF INSERVICE issued by the National Board of Boiler and Pres		te or Province of
North Carolina	and employed by HSB Globa	al Standards	
Connecticut			of
per a company to the company and another and another and another and the company and the company and another and another and another and another and another another and another another and another another and another another another another another another and another a		nts described in this Owner's Repor	
measures described in this Owner's Report in a			ormed examinations and taken corrective
incusares described in this 5 wher 5 report in the		5000, 5000011M	
By signing this certificate neither the Inspector			
in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	e Inspector nor his employer shall be liable in a	iny manner for any personal injury	or property damage or a loss of any kind
	/		
JF Swan I grome to be	Jan Commission	NB11473-NC1524, N-1	
Inspector's Signature		State, Province, and Endorsements	
L (10=1)	15		
Date	01/~		

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/13/2015 526 South Church Street, Charlotte, NC, 28201 Sheet $\frac{1}{2}$ of 2 Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2148612-11 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 N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 4. Identification of System RN - Nuclear Service Water 19 71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 ASME Code Corrected. Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Duke Energy Yes N/A 1982 Installed RN System

7. Description of Work	Replaced Component/Part/Appurtenance							
Additional Description		ial in flange at valve 2RN174.						
8. Tests Conducted: Hydrostatic	Pneumatic	Nominal Operation Pressure		Other [Pressure 86	PSI	Test Temp. 57	
^o F Description (Optional): <u>Te</u>	st performed per procedu	re MP/0/A/7650/076.			•	·	•	

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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:	
and the second of the second o	
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.	1
Type Code Symbol Stamp N/A	
Type Gode Symon Stamp	
ONTIA	
Certificate of Authorization No. N/A	xpiration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	Date October 13 , 20 15
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 of	r Province of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report du	
9-22-15 to $10-12-15$, and state that to the best of my knowledge and belief, the Owner has performed	•
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	or ordinations and miles control.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinat in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or personal inju	
arising from or connected with this inspection.	
I was a second of the second o	
JF Swan Commissions NB11473-NC1524, N-1 Inspector's Signature National Board, State, Province, and Endorsements	
Inspector's Signature // Inspector's Signature	
Date 13, 20, 15	

1. Owner Duke F	Energy Carolinas, LLC			— Date 2/19/2015			
526 Sc	outh Church Street, Charlotte, No Address	C, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2150466-01			
	Address			Work Order # (or Repair/F	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol Sta			
	526 South Church Street, Charlotte, NC 28201-1006			Authorization	g-1		
	Address			Expiration D	ate: N/	<u>A</u>	
4. Identification of Syst	em VG - Diesel Generator Eng	ne Staring Air			***************************************		
5. (a) Applicable Cons	truction Code ASME III on of Section XI used for Repair			ion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Secti	on XI Code Case(s) N/A						
6. Identification of Com	ponents						
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	<u>Yes</u>
The first county of the section of t						- Control of the Cont	
						Connector C	
						Summercraft	
						The second secon	
						Succession	
7. Description of Work	Replaced Component	Part/Appurtenance	-				
Additional Description	Replaced bonnet ass	embly on valve 2VG66.					
8. Tests Conducted: H		Nominal Operation		mpt 🗀 Other 🗀 Pressu	іге	PSI Test Temp). <u> </u>
^o F Description (Opti	onal): Test performed per proce	edure MP/0/A/7700/045.					

9. Remarks (Should Include the Following Information of the Following Info	mation, as Applicable):			Sheet $\frac{2}{2}$ of $\frac{2}{2}$
<u> </u>	(nominal) Syst	tem Class: ASME Class.3	<u>}</u>	
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 e	lsewhere on NIS-2 Form:		
	Applicable N	Manufacturer's Data Reports to be a	ttached	
	CERTI	FICATE OF COMPLIAN	NCE	
I certify that the statements made in the report a				
Type Code Symbol Stamp N/A			····	
processing and account to the account	ر مورد المراجعة	productions and required to the contract of th		generation in the territory in the section of the s
Certificate of Authorization No. N/A			Expira	ation Date N/A
Signed FL Grass, Quality Assurance Technical	Canadiat	10H.		Date February 19 20 15
Signed FL Grass, Quanty Assurance Technical Owner or Owner's Desig		+ Thins	1	Date February 19, 20 15
Ĺ	<u> </u>			
	CERTIFICA'	TE OF INSERVICE INS	PECTION	
I, the undersigned, holding a valid commission				ovince of
North Carolina	and emplo	oyed by HSB Global Stand	lards	of
Connecticut	have insp	ected the components desc	ribed in this Owner's Report during	g the period
12-9-14 102-23.	11	•	belief, the Owner has performed e	•
measures described in this Owner's Report in ac				
By signing this certificate neither the Inspector	non his summler in meless our	versements oversead or im	nlied concerning the exeminations	and corrective managers described
in this Owner's Report. Furthermore, neither th				
arising from or connected with this inspection.		·		
To the same of	/ 	NTD1	1460 NO1604 N 1	
JF Swan Orova 7. Julius Inspector's Signature	van	Commissions NB1 National Board, State, Prov		
moreous sognature		Timional Doute, Dialo, Tion	,	
Date 2-25, 2	20 25			

1. Owner Duk	Owner Duke Energy Carolinas, LLC					4		
526	South Church Street, Charlotte,	NC, 28201		— Date 10/10/2015 — Sheet 1 of 2	- Constitution of the Cons			
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road, I	12700 Hagers Ferry Road, Huntersville, NC 28078					_	
	Address	1		Work Order # (or Repai	r/Replacement	Organization P.O. No., Jo	b No., etc.)	
3. Work Performed b	y <u>Duke Energy Carolinas, LI</u> Name	.C		Type Code Symbol S	Type Code Symbol Stamp: N/A			
	506 Court Change Court C	9 NG 20201 100	C	Authorizatio	n No.: N/	<u>'A</u>		
	526 South Church Street, C Addres		0	Expiration	Date: N/	<u>'A</u>		
4. Identification of S	ystem NV - Chemical and Volum	ne Control				and a should have been supplied to the supplied of the supplind of the supplied of the supplied of the supplied of the supplin		
5. (a) Applicable Co	onstruction Code ASME III dition of Section XI used for Repo			dition, Summer and Winter ne 2008 Addenda	Add	lenda, N/A	Code Case	
(c) Applicable Se	ection XI Code Case(s) N/A					-		
6. Identification of C	omponents		·					
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	
The state of the s						1		
The second secon						grtypements.		
7. Description of Wo	ork <u>Replaced Compone</u>	nt/Part/Appurtenance						
Additional Descript	ion Replaced valve 2N	V492 per EC113668.			00,000; pp-0,000 to 100000000000000000000000000000000			
8. Tests Conducted:		_ L		empt Other Pres	sure 1985	PSI Test Tem	p. 92.7	
^o F Description (O	ptional): test performed per pro-	cedure MP/0/A/7650/076	<u>6.</u>			and the second s	The second secon	

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\boxed{2}$ of $\boxed{2}$
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	Alternatives when the commence of the second
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:	. Ang pang managan br>Managan managan man
	merupa (Add)
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	on Date N/A
Signed FL Grass, Quality Assurance Technical Specialist ### ### Dai Dai	te October 10 , 20 15
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 Provi	nce of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during the	ne period
$\frac{2-\sqrt{2-1}}{5}$ to $\frac{10-13-15}{5}$, and state that to the best of my knowledge and belief, the Owner has performed exame measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	minations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations are in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or propert arising from or connected with this inspection	nd corrective measures described by damage or a loss of any kind
JF Swan Irone L. Juan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date 7.0-15 , 20 , 20	

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_
Manufactured and certified by	Flowserve Corporat	ion, 1900 South Saunders Si	treet, Raleigh, N.C. 27603	
2. Manufactured for Duke Energy	Carolinas, LLC, P.O. Bo		237	
3. Location of installation McGuire	Nuclear Station, 13225		3, Huntersville, NC, 28078	8985
4. Model No., Series No., or Type 15	500 GATE Dra	awing 12-67866-01	Rev. B	_ CRNN/A
5. ASME Code, Section III, Division 1	1971 (edition)	SUMMER 1973 [Addends (# applicable) (d		N/A (Code Case no.)
6. Pump or valve VALVE	Nominal inlet size	2.00" Outlet size	2.00°	
7. Material (a) valve Body SA182-F316 (b) pump Casing	Bannet SA182-F316 Cover	Disk SA351-CF8M Bo	olting N/A	
(a) Certificate Holders Serial No.	(b) National Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
95BWX	3063	A7-6	S0322-1-1	N8147-20
			•	
	 			

(07/10)

PROTE S

[&]quot;Supplemental information in the form of lists, sketches, or drawings may be used provided; (1) size is 8½ × 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.

FORM NPV-1 (Back — Pg. 2 of ______)

				Ce	rtificate Holder's Serial No.	95BWX
8.	Design conditions	2735 psig	609 F	or valve pressure class	1500	·
		" .	(temperature)			
9.	Cold working pressure	3600 psig				
10.	Hydrostatic test54	100 psig Di	isk differential test pressure	4000 psig		
11.	Remarks	·	S.O. 103905-005			
	PIPE NIPPLE - MATL	: SA312-TP304, HE	EAT NO: 8343H			<u>,,,</u>
						
Γ			CERTIFICATION	OF DESIGN		
۱,	esign Specification certi	fied by	Fred R. Setzer		P.E. State NC Reg. no	20225
	esign Report certified by		N/A		P.E. State N/A Reg. no	
ـــا		· · · · · · · · · · · · · · · · · · ·				
		· · · · · · · · · · · · · · · · · · ·	A-5711A 175 05 0			
1			CERTIFICATE OF C	OMPLIANCE		
			report are correct and that	this pump or valve c	onforms to the rules for cons	struction of the
	SME Code, Section III, Di		N-1562		11-26-2015	
l N	Certificate of Authorizat	tion No.	N-1362	Expires	11-20-2013	
D.	ate March 31, 2014	Name	FLOWSERVE CORPORAT	TON Signed	15.1	
L			(N Certificate Holder)		(authorized representative)	
_						
			CERTIFICATE OF	NSPECTION		
١.	the undersigned holds	na a valld nammics	rian income by the Matieres	Doned of Bolley and S	ressure Vessel Inspectors an	d ampleted by
<u> </u>		The Har	tford Steam Boiler Inspection			u employed by
of					mp, or valve, described in this	
l in	accordance with the ASI			and belief, the Certifical	e Holder has constructed this p	pump, or valve,
		•		warranty, expressed or	Implied, concerning the comp	anent described
ln	this Data Report. Further	rmore, neither the in	spector nor his employer sha	all be liable in any mann	er for any personal injury or p	roperty damage
or	a loss of any kind arising	trom or connected	with this inspection.			
Da	ate 3/31/14	Signed Runt	harized Nuclear Inspector)	Commission	National Board Number and Endore	ement)

1. Owner Duke	Energy Carolinas, LLC			— Date 10/7/2015		Service of contact to the contact to	
526 S	outh Church Street, Charlotte, N	NC, 28201		— Sheet 1 of 2	and the same of th		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, H			2150540-07			
	Address			Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, LL</u> Name	<u>C</u>		Type Code Symbol	-	water strangers and comments of the same and comments of	
	526 South Church Street, C	harlotte, NC 28201-100	6	Authorization	prosessor.	Manager and the National States and American States and American States	
	Address			Expiration	Date: N/	<u>A</u>	
4. Identification of Sys	tem NV - Chemical and Volun	ne Control			***************************************		
5. (a) Applicable Con	struction Code ASME III ion of Section XI used for Repa			dition, Summer and Winter ne 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Sect	ion XI Code Case(s) N/A						
6. Identification of Cor	nponents						
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
						The second secon	
						Lane and	
						y management	
The state of the s						Francisco C	
7. Description of Work	Replaced Componer	nt/Part/Appurtenance			·•		
Additional Description	n Plate replaced on h	anger 2MCA-NV-5251	per EC113668.				
8. Tests Conducted: 1		Nominal Operation	on Pressure Ex	empt 🗹 Other 🗆 Pre	ssure	PSI Test Ten	np
^o F Description (Opt	ional):				· ·		

9. Remarks (Should Include the Following Infor	mation, 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	o., EC No.) if not included elsewhere on NIS-2 Form:	EC113668
	Applicable Manufacturer's Data Reports to be atta	ached
	CERTIFICATE OF COMPLIANCE	CE
I certify that the statements made in the report a	are correct and that this conforms to the requirements of t	the ASME Code, Section XI.
Type Code Symbol Stamp N/A		
1 1/1/1		
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		Date October 7 , 20 15
Owner or Owner's Designment	nee, little /	
	CONTROL TO A DISTRICT DISTRICT	TOTAL ON THE PROPERTY OF THE P
I the undersioned holding a valid commission	CERTIFICATE OF INSERVICE INSPI issued by the National Board of Boiler and Pressure Ves	
North Carolina	and employed by HSB Global Standa	of
Connecticut		bed in this Owner's Report during the period
2-12-5 10/19-13-		
	, and state that to the best of my knowledge and becordance with the requirements of the ASME Code, Sec	pelief, the Owner has performed examinations and taken corrective ction XI.
	,	
By signing this certificate neither the Inspector	nor his employer makes any warranty, expressed or impl	lied, concerning the examinations and corrective measures described
arising from or connected with this inspection.	e inspector nor his employer shall be liable in any mann	ner for any personal injury or property damage or a loss of any kind
· // -		
JF Swan / prome 1. A	Commissions NB114	473-NC1524, N-1
Inspector's Signature	National Board, State, Provin	
Date //0-13	0/5	
,		

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 Sheet 1 of 2 Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2151871-11 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A Expiration Date: 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 Corrected. ASME Code Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer **Duke Energy** N/A N/A Yes N/A N/A Corrected 2MCR-KC-4821 Duke Energy N/A N/A N/A N/A Corrected Yes 2MCR-KC-4823 Replaced Component/Part/Appurtenance 7. Description of Work Additional Description Replaced bolting material in hangers 2MCR-KC-4821 & 4823. Nominal Operation Pressure Exempt 🗹 Other [Pneumatic 8. Tests Conducted: Hydrostatic Pressure PSI Test Temp. ____ Description (Optional):

9. Remarks (Should Include the Following Infor	• • • •			Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 3 in. Weld Isometric Drawing No(s).: N/A	(nominal) Syst	tem Class: ASME Class	<u> </u>	
Flow Diagram No(s).:	NOTE OF STATE OF STAT	<u> </u>		
Support/Restraint Sketch/Drawing No(s).:	MCFD-2573.03.00		<u>· </u>	
Other Applicable Information (e.g., W.O. No	2MCR-KC-4821 & 4823	Isewhere on NIS-2 Form	. EC107055	
			EC107855	
	Applicable N	Manufacturer's Data Reports to b	e attached	
	CERTI	FICATE OF COMPLIA	ANCE	
I certify that the statements made in the report a	re correct and that this confo	forms to the requirements	of the ASME Code, S	ection XI.
Type Code Symbol Stamp N/A			· 	
Certificate of Authorization No. N/A				Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		Tolhow		Date October 22 , 20 15
		TE OF INSERVICE IN		
I, the undersigned, holding a valid commission				
North Carolina		oyed by HSB Global Sta		of
Connecticut	<u> </u>	•		s Report during the period
$\frac{9-29-15}{\text{measures described in this Owner's Report in an }}$	<u> </u>	best of my knowledge ar nents of the ASME Code,	nd belief, the Owner has Section XI.	as performed examinations and taken corrective
				e examinations and corrective measures described l injury or property damage or a loss of any kind
I				
JF Swan Inspector's Signature	Jan		B11473-NC1524, N-1	
Date / 0 - 22 , 2	0.45			

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 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2151871-18 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 4. Identification of System KC - Component Cooling 5. (a) Applicable Construction Code ASME III 19.71 Edition, Summer and Winter Addenda, N/A Code Case (b) Applicable Edition of Section XI used for Repair/Replacement Activity 2007 Edition with the 2008 Addenda (c) Applicable Section XI Code Case(s) N/A 6. Identification of Components ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer **Duke Eneergy** N/A N/A N/A Yes N/A Corrected 2MCR-KC-4671 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced item# 7 on hanger 2MCR-KC-4671. 8. Tests Conducted: Hydrostatic Pneumatic Pneumatic Nominal Operation Pressure Exempt 🗹 Other 🗌 Pressure PSI Test Temp. Description (Optional):

9. Remarks (Should Include the Following Inform	mation, as Applica	ıble):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal)	System Class: ASME Class	<u>s 3</u>	
Weld Isometric Drawing No(s).: N/A				
Flow Diagram No(s).:	MCFD-2573-03.0	00		· · · · · · · · · · · · · · · · · · ·
Support/Restraint Sketch/Drawing No(s).:	2MCR-KC-4671			
Other Applicable Information (e.g., W.O. No	•		ı:	
en e		And the second s		
	1	Applicable Manufacturer's Data Reports to be	e attached	
		CERTIFICATE OF COMPLIA		
I certify that the statements made in the report ar	re correct and that	this conforms to the requirements	of the ASME Code, Section	n XI.
Type Code Symbol Stamp N/A				
Certificate of Authorization No. N/A				Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		TAkun		Date October 22 , 20 15
<u> </u>				
	CER	RTIFICATE OF INSERVICE IN	JEDECTION	
I, the undersigned, holding a valid commission i	issued by the Natio	onal Board of Boiler and Pressure	Vessel Inspectors and the S	State or Province of
North Carolina		and employed by HSB Global Star		of
Connecticut		have inspected the components des		
measures described in this Owner's Report in ac	- and state the	that to the best of my knowledge an	nd belief, the Owner has per	erformed examinations and taken corrective
measures described in this Owner's Report in ac	CORUMNOS WILLIAMS	requirements of the recovery	Section At,	
By signing this certificate neither the Inspector r in this Owner's Report. Furthermore, neither the	he <i>H</i> ispector nor his			
arising from or connected with this inspection.	//			
JF Swan Orome . Sw	1	Commissions NF	B11473-NC1524, N-1	
Inspector's Signature			Province, and Endorsements	
Date	20/5			

1. Owner _	Duke E	nergy Carolinas, LLC	· · · · · · · · · · · · · · · · · · ·		— Date 2/19/2015			
	526 Soi	uth Church Street, Charlotte, N	C, 28201		- Sheet 1 of 2	· -		
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, Hi	intersville, NC 28078		2151894-01			
		Address			Work Order # (or Repair/l	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Per	formed by	<u>Duke Energy Carolinas, LLC</u> Name	<u> </u>		Type Code Symbol Sta			***************************************
		526 South Church Street, Ch	ariotte NC 28201-1006		Authorization	*********		
		Address	<u>arrotte, 140 28201-1000</u>		Expiration D	ate: N/	<u>A</u>	
4. Identificat	tion of Syste	WG - Diesel Generator Eng	ine Staring Air					
		ruction Code ASME III n of Section XI used for Repai	r/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case
(c) Appl	icable Section	n XI Code Case(s) N/A						
6. Identificat	tion of Comp	oonents						
	ne of conent	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
***************************************	2						or continues	
3		A core as and the first individual and the first and the f					and the second s	
and the state of t								
7. Description	on of Work	Replaced Component	/Part/Appurtenance			L.	<u> </u>	
Additional	Description	Replaced bonnet ass	embly on valve 2VG51	60.				
8. Tests Con	•	***************************************	Nominal Operation	Pressure Exer	mpt D Other D Pressi	ire	PSI Test Tem	р
^o F Descri	iption (Optio	nal):			 		· 	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{}$ of $\frac{2}{}$
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 Tellura Date Feb	oruary 19 20 15
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	od
1 - 26 - 15 to 2 - 23 - 15 and state that to the best of my knowledge and belief, the Owner has performed examination measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ons and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and correin this Owner's Report. Furthermore, neither the hispector nor his employer shall be liable in any manner for any personal injury or property dama arising from or connected with this inspection.	
JF Swan propre - huan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date	

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 Address-2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2153808-13 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: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer **Duke Energy** N/A Yes 1982 Installed **NV** System 7. Description of Work Add New Component/Part/Appurtenance/Weld Additional Description Installed orifice and it's bolting material per EC112794. Pneumatic . Exempt Nominal Operation Pressure Test Temp. 8. Tests Conducted: Hydrostatic Other | Pressure _____ Description (Optional): Test performed per procedure MP/0/A/7700/045.

9. Remarks (Should Include the Following Inform	nation, as Applicable):		Sheet 2	of <u>2</u>
Component Line Size: 2 in. (1	(nominal) S	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 include	ed elsewhere on NIS-2 Form: EC112794	· · · · · · · · · · · · · · · · · · ·	
	× - × - × - × - ×	·		
	Applical	ble Manufacturer's Data Reports to be attached		
		RTIFICATE OF COMPLIANCE		
I certify that the statements made in the report ar	re correct and that this co	onforms to the requirements of the ASME Co	ode, Section XI.	
Type Code Symbol Stamp N/A		and the second s	and the second s	
Type Code Symbol Stamp N/A				
DT/A	and the results of the		- N/A	- ··.
Certificate of Authorization No. N/A			Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical	Capcialist	- 42 W	Date October 11	20 15
Owner or Owner's Design		~ man	Date October 11	, 20_13_
<u> </u>	<u> </u>			
	CERTIFIC	CATE OF INSERVICE INSPECTION		
I, the undersigned, holding a valid commission is	issued by the National Bo	oard of Boiler and Pressure Vessel Inspectors	s and the State or Province of	
North Carolina		nployed by HSB Global Standards		of
Connecticut		nspected the components described in this Ov	wner's Report during the period	
9-27-15 to 10-14-15	٠	the best of my knowledge and belief, the Own	·	n corrective
measures described in this Owner's Report in acc		rements of the ASME Code, Section XI.	liet has performed examinations and taken	I COHECHVC
•	•	·		
By signing this certificate neither the Inspector n in this Owner's Report. Furthermore, neither the	nor his employer makes a	any warranty, expressed or implied, concerni	ng the examinations and corrective measu	res described
arising from or connected with this inspection.	a mispector nor ma empre	oyer shall be hable in any manner for any per	ROTTAL INJURY OF PROPERTY CHARGE OF A 1055	or any kina
	//			
IF Swan prome f. h	wan	Commissions NB11473-NC1524,	N-1	
Inspector's Signature		National Board, State, Province, and Endorsem	ients	
Date	0.25			

1. Owner _	Duke Er	nergy Carolinas, LLC	· · · · · · · · · · · · · · · · · · ·		— Date 7/7/2014			
-	526 South Church Street, Charlotte, NC, 28201 Address				Sheet 1 of 2			
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, Hu	intersville, NC 28078		2157572-11	······		
		Address			Work Order # (or Repair	/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Perf	formed by	Duke Energy Carolinas, LLC Name	<u> </u>		Type Code Symbol S	- (5.7)		
		526 South Church Street, Ch	arlotte, NC 28201-1006		Authorization			~~~~
		Address	<u></u>	 -	Expiration 1	Date: N/	<u>A</u>	
4. Identificat	ion of Syste	m YC - Chilled Water				***************************************		
		ruction Code ASME III n of Section XI used for Repai	r/Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
(c) Appli	cable Sectio	n XI Code Case(s) N/A					And the second s	
6. Identificat	ion of Comp	onents						
Nam Comp		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	<u>No</u>
					and the section of th		Sample of the sa	
							Section and the section and th	
\$ ************************************				1			un un annotation de la constantina della constan	
2 7 10 100 100 100 100 100 100 100 100 10		THE ENDING THE STATE OF THE STA	TOTAL STATE OF THE					
1974 - 7 5,00 h 900 11 21 21 20 20 20 20 20 20 20 20 20 20 20 20 20						1		
7. Descriptio	n of Work	Replaced Component	/Part/Appurtenance	ne, ud.				
Additional	Description	Installed item 2 back	to item 3 on hanger 2M	ICA-S-YC-503-01-CC	(after replacement of valve	IYC184).		
8. Tests Cond Description (Ĭ	rdrostatic Pneumatic P	Nominal Operation	Pressure Exem	ot 🔽 Other 🗆 Pressur	e F	PSI Test Temp.	°F
•	/					-		

9. Remarks (Should Include the Following Information, as Applicable): Sheet 2 of 2
Component Line Size: 11/2 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, 20 14
Owner of 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 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 Orone / Wan Commissions NB11473-NC1524, N-I
Swan Orove Way Commissions NB11473-NC1524, N-1 Inspector's Signature National Board, State, Province, and Endorsements
Date 7-8, 20/4

	526 South Church Street, Charlotte, NC, 28201 Address Shee				Date 10/8/2015 Sheet 1 of 2			
12700 Hagers Ferry Road, Hu	intersville, NC 28078		2159188-33					
Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)		
3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name	<u>. </u>		Type Code Symbol St. Authorization	57/	arthur angle in the purpose property and the contract of the public and the contract of the public angle o	and applications designed to the control of the con		
526 South Church Street, Characteristics Address	526 South Church Street, Charlotte, NC 28201-1006 Address				A			
4. Identification of System NI - Safety Injection								
5. (a) Applicable Construction Code ASME III(b) Applicable Edition of Section XI used for Repair	/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case		
(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		
A STATE OF A COLUMN ASSESSMENT OF A STATE OF					A contract of the contract of			
Secretary of the Control of the Cont					From many			
					Parameter 3			
2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			A STATE OF THE PROPERTY OF T					
The state of the s					comments of			
7. Description of Work Replaced Component	/Part/Appurtenance			·				
Additional Description Replaced bolting ma	terial in rupture restrain	t on cold leg of 2A.	articles and the second					
8. Tests Conducted: Hydrostatic Pneumatic of Description (Optional):	Nominal Operation	n Pressure 🗹 Exer	mpt Other Press	ıre	PSI Test Tem	ıp.		

Remarks (Should Include the Following Information)	mation, 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	o., EC No.) if not included elsewhere on NIS-2 Form:	
	Applicable Manufacturer's Data Reports to be att	ached
<u></u>	CERTIFICATE OF COMPLIAN	CE
I certify that the statements made in the report a	re correct and that this conforms to the requirements of	the ASME Code, Section XI.
Type Code Symbol Stamp N/A		
Certificate of Authorization No. No.		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist Fillian	Date October 8 , 20 15
Owner or Owner's Design	nee, Title	
Take andersion 1 to 1 the continue	CERTIFICATE OF INSERVICE INSP	
North Carolina	issued by the National Board of Boiler and Pressure Ves and employed by HSB Global Standa	
Connecticut		
to the first term of the second secon		ibed in this Owner's Report during the period
$\frac{9-2^{\prime}-3}{1-2}$ to $\frac{3-2}{2-2}$ measures described in this Owner's Report in ac	, and state that to the best of my knowledge and becordance with the requirements of the ASME Code, Se	pelief, the Owner has performed examinations and taken corrective ction XI.
		blied, concerning the examinations and corrective measures described her for any personal injury or property damage or a loss of any kind
	,	
JF Swan Grove t. Mu	Commissions NB11	
JF Swan Prove - fur Inspector's Signature	Commissions NB11-	

1. Owner _	526 Courth Church Street Charletta NG 20201				— Date 10/6/2015	- Date 10/6/2015 - Sheet 1 of 2			
-					processors and a processor and a processors and a processor and a				
2. Plant		McGuire Nuclear Station Name			Unit 2	4			
		12700 Hagers Ferry Road, Huntersville, NC 28078				***************************************			
		Address			Work Order # (or Repai	r/Replacement	Organization P.O. No., Jo	b No., etc.)	
3. Work Perf	ormed by	<u>Duke Energy Carolinas, LL</u> Name	<u>C</u>		Type Code Symbol S	3.7/		The square of th	
		526 South Church Street, Cl	harlotte NC 28201-1006		Authorizatio		**************************************	· · · · · · · · · · · · · · · · · · ·	
		Address	<u> </u>		Expiration	Date: N/	<u>A</u> _		
4. Identificat	ion of Syste	m NC - Reactor Coolant						-	
		ruction Code ASME III n of Section XI used for Repa	ir/Replacement Activity		ition, Summer and Winter e 2008 Addenda	Add	lenda, N/A	Code Case	
(c) Appli	cable Sectio	n XI Code Case(s) N/A					Application of the Control of the Co		
6. Identificat	ion of Comp	onents							
Nam Comp		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	
		A CONTRACT OF THE PROPERTY OF					No. monorare 7		
		And the second s			The state of the s		Amounts are set		
							Se common de		
		A CONTROL OF STREET OF THE STREET OF					A consequence of		
							-		
7. Descriptio	n of Work	Replaced Componer	nt/Part/Appurtenance						
Additional 1	Description	Replaced control va	alves (cone & seat) in the	upper lateral support	for 2D SG			a service de	
8. Tests Cond oF Descrip	ducted: Hy ption (Optio		Nominal Operation	n Pressure Exe	empt Other Pres	sure	PSI Test Tem	p.p.	

9. Remarks (Should Include the Following Information, as Applicable):	Sheet 2 of 2
	ass: 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 elsewhe	re on NIS-2 Form:
Applicable Manufact	urer's Data Reports to be attached
	TE 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	These Date October 6, 20 15
Owner or Owner's Designee, Title	
GENTING ATE OF	Property of High Conton
I, the undersigned, holding a valid commission issued by the National Board of Bo	INSERVICE INSPECTION oiler and Pressure Vessel Inspectors and the State or Province of
North Carolina and employed by	HSB Global Standards of
	he components described in this Owner's Report during the period
nave hispected to	
measures described in this Owner's Report in accordance with the requirements of	f my knowledge and belief, the Owner has performed examinations and taken corrective f the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrain this Owner's Report. Furthermore, neither the Inspector nor his employer shall arising from of connected with this inspection.	nty, expressed or implied, concerning the examinations and corrective measures described be liable in any manner for any personal injury or property damage or a loss of any kind
arising from our connected with this inspectation.	
IF Swan Prome I lwan	Commissions NB11473-NC1524, N-1
	National Board, State, Province, and Endorsements
Date	

1. Owner <u>Duke Er</u>	nergy Carolinas, LLC			— Date 3/10/2015	***************************************	and the same of th	
526 Sou	uth Church Street, Charlotte, No Address	- Sheet 1 of 2					
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2162666-01			
	Address			Work Order # (or Repair/)	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol St	amp: N/	Α	
	526 Careth Chronic Company Che			Authorization	No.: No.:	<u>A</u>	
	526 South Church Street, Cha Address	iriotte, NC 28201-1006		Expiration D	ate: N/	<u>A</u>	The second of th
4. Identification of System	m CA - Auxiliary Feedwater						_
 (a) Applicable Constr (b) Applicable Editio 	·	/Replacement Activity _		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case
6. Identification of Comp							
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	<u>No</u>
2MCA-CA-57	Duke Energy	39159	N/A	N/A	N/A	Installed	No
						The second second	
						Transcensor, V	
						Opening of the control of the contro	
						discussion of the state of the	1
7. Description of Work	Replaced Component	Part/Appurtenance	,				<u>.</u>
Additional Description	Replaced snubber an	d ity's bolting material o	on hanger 2MCA-CA-	57			
8. Tests Conducted: Hy oF Description (Optio		Nominal Operation	Pressure Exer	npt 🗹 Other 🗀 Pressi	ıre	PSI Test Tem	p

9. Remarks (Should Include the Following Infor Component Line Size: 6		1016D Cl 2		Sheet 2	of 2			
Component Line Size: 6 in. Weld Isometric Drawing No(s).: N/A	(nominal) System	Class: ASME Class 2						
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		where on NIS-2 Form:						
		And the state of t	I	THE PROPERTY OF THE PROPERTY O	The state of the s			
	Applicable Manu	facturer's Data Reports to be atta	ched					
	CERTIFIC	ATE OF COMPLIANC	CE CE					
I certify that the statements made in the report a	are correct and that this conform	s to the requirements of the	he ASME Code, Section 2	XI.				
Type Code Symbol Stamp N/A								
Certificate of Authorization No. N/A	Certificate of Authorization No. N/A Expiration Date N/A							
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		Those		Date March 10	, 20 15			
		OF INSERVICE INSPE		en on Drowings of				
I, the undersigned, holding a valid commission North Carolina		HSB Global Standar		ie or Province of				
Connecticut				t during the period	of			
3-3-15 10 3-23	have hispected the components described in this Owner's report during the period							
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any wa ne Inspector nor his employer sh	rranty, expressed or impl all be liable in any manno	ied, concerning the exami er for any personal injury	inations and corrective measu or property damage or a loss	of any kind			
JF Swan propre 1. A	wan	Commissions NB114	73-NC1524, N-1					
Date 3-23, 2	20/5	National Board, State, Province	e, and Endorsements					

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC Date 10/12/2015 1. Owner 526 South Church Street, Charlotte, NC, 28201 _ of 2 Sheet 1 Address 2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2172693-07 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer 42BWY 3065 N/A <u>Yes</u> Flowserve 2014 Removed 2RN1137 UTC# 1089468 Yes Flowserve 1594 2006 48BEK Installed 2RN1137 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced valve 2RN1137. Pneumatic [Nominal Operation Pressure 8. Tests Conducted: Hydrostatic Exempt Other -Pressure ____ Test Temp. Description (Optional): Test performed per procedure MP/0/A/7700/045.

9. Remarks (Should Include the Following Inform	mation, as Applicable):			Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 2in. ((nominal) Syste	em 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 els	sewhere on NIS-2 Form:		
	er a transport of the second of the second	e de la companya del companya de la companya de la companya del companya de la co		
	Applicable Ma	anufacturer's Data Reports to be attached		
	CERTIF	ICATE OF COMPLIANCE		
I certify that the statements made in the report a	re correct and that this confor	rms to the requirements of the AS	SME Code, Section XI.	
Type Code Symbol Stamp : N/A	managan banggangan sebagai at a pangan sebagai	agreers and an exercise services of the second		ا الما يا يا يوانيو الما يا يواني والمحدد الماري
Type Code Symbol Stamp :N/A				
NIA		and the second of the second	.	T NT/A
Certificate of Authorization No. N/A			Expiration	n Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist	-Albu		e October 12, 20 15
Owner or Owner's Desig				·
L		<u></u>		
	CERTIFICAT	E OF INSERVICE INSPECTI	ON	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
I, the undersigned, holding a valid commission	issued by the National Board	of Boiler and Pressure Vessel Ins	spectors and the State or Proving	ice of
North Carolina	and employ	yed by HSB Global Standards		of
Connecticut	·	cted the components described in	this Owner's Report during the	e period
9-18-15 to 10-15-	, und blace that to the c	pest of my knowledge and belief,	the Owner has performed exan	ninations and taken corrective
measures described in this Owner's Report in ac	ecordance with the requireme	ents of the ASME Code, Section 2	XI.	
By signing this certificate neither the Inspector :	nor his employer makes any	warranty, expressed or implied, c	concerning the examinations and	d corrective measures described
in this Owner's Report. Furthermore, neither th	le Inspector nor his employer	shall be liable in any manner for	any personal injury or property	y damage or a loss of any kind
arising from of connected with this inspection.				
JF Swan Jorgo J.		Commissions NB11473-N	IC1524 N-1	and the second second
Inspector's Signature		National Board, State, Province, and		
	, *** 			
Date $\sqrt{3-3}$, 2	015			

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 C	orporation, 15	00 S. Saunders	St. Rale	igh. NC 27603		
2.	Manufactured for Duke Ene	rgy Corp. P	O Box 1015 Char	lotte, NC 28201	-1015			
3.	Location of Installation Cata		(Name and A	ddress of Purchasar or C	Twner?			,
			(A)	lame and Address)		O. 4-4 Cino		
4.	Pump or Valve	Valve	Nominal I	niet Size	(inch)	Outlet Size		Z"
	(a) Model No.	(b) N	(c) Canadian		(,	
	Series No.	Certificate Holder's	Registration	(d) Drawin	9		(f) Nat'L	(g) Year
	or Type	Serial No.	No.	No.		(e) Class	Bd. No.	Built
	(1) 600#	48BEK	N/A	₩0025607, 1	Rev	1	1594	2006
	(2)							
	(3)			-				
	(4)							
	(5)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,			
	(6)							
	(7)	·····						
	(8)							
	(9)						·	······································
	(10)			···				
5.	2"-600#-DURABLA CHE	CK VAĽVE	, .					
			(Brief description of	service for which equipm	era was designed)	35507-0)2
6.	· Design Conditions 144	to . I	psi 100) °F or V	/alve Pressur	e Class	600	(1)
7.	Cold Working Pressure	1440	psi at 100 °F.	rature)				_
8	Pressure Retaining Pieces	1440						
	Mark No.		Material Spec. No.		Manufecture		Remarks	
	(a) Castings		···					
	ESRU-1		SA351-CF8M /		Flowserve		Body	
	<u></u>							,
		- 						
								
	(b) Forgings							
	22096-5 /		SA479-316L ~		Dubose		Disk/Sten	
	21856-3		SA479-316L -		Dubose		Seat Ring	<u> </u>
			 					
			·					
	-					10 89	468	
							<u> </u>	
								

Pg. 1 of 2

⁽¹⁾ For manually operated valves only

[&]quot;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.

		Valve	S/N 48BEK through
Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Balting			
	·		<u> </u>
		<u> </u>	
			
(d) Other Parts			
(d) Culei Pars			
			
·			
			
			<u> </u>
Ve certify that the statements made in onforms	CERTIFICATE OF	COMPLIANCE	the rules of construction
onionia If the ASME Code for Nuclear P	ower Plant Components. Sect	ion III, Div. 1., Edition	1989
ddenda No Addenda , Code	Case No. N/A	Date -2	-23-06
igned Flowserve Corp.	by	Rull	
(N Conflicate Holser) Our ASME Certificate of Authorization No.	N-1562 to use the		11-26-06
	CERTIFICATION (OF DESIGN .	(Date)
Design information on file at	F	owserve Corporation Raleigh,	NC
Stress analysis report (Class 1 only) o	on file at	Flowserve Corporation Rai	eigh, NC
Design specifications certified by (1)		F.A. Bensinger	
PE State PA Stress analysis certified by (1)	Reg. No.	PE-31002-E	
PE State PA	Reg. No.	T. C. Bartlett PE-039036-E	
Signature not required. List name only.			1989468
	CERTIFICATE OF SHO	P INSPECTION	
he undersigned, holding a valid commission			s and the State or Province of
orth Carolina and employed by	HSB CT		artford Connecticut
ve inspected the pump, or valve, describe lief, the N Certificate Holder has construct signing this certificate neither the Inspect s s Data Report. Furthermore, neither the I	ed this pump, or valve, in accordant or nor his employer makes any wan	ce with ASME Code, Section III. anty, expressed or implied, concern	he best of my knowledge and ing the equipment described in al injury or property damage, or a
s of any kind arising from or connected with te 2 1 24 1 06			RA
ned(inspector)	Commissions_A	3 ⁴ /1666 NSA NC ⁴ /9/ (Nat'l Bd., State, Prov. and No	2/
			XXV

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/19/2015 526 South Church Street, Charlotte, NC, 28201 of^{-2} Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2174072-27 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 N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 Corrected, ASME Code Name of Removed, or Stamped Manufacturer Other National Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A Duke Energy N/A Yes 1982 **NV System** Installed 7. Description of Work Add New Component/Part/Appurtenance/Weld Additional Description Installed orifice per EC102374. Pneumatic Nominal Operation Pressure 8. Tests Conducted: Hydrostatic Exempt Other Pressure ____ Test Temp. Description (Optional): Test performed per procedure MP/0/A/7700/045.

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\underline{\underline{2}}$ of $\underline{\underline{2}}$
Component Line Size: 4in. (nominal) System Class: ASME C	lass 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 F	
Applicable Manufacturer's Data Report	to be attached
CERTIFICATE OF COM	LIANCE
I certify that the statements made in the report are correct and that this conforms to the requirem	nts of the ASME Code, Section XI.
Type Code Symbol Stamp N/A	and the control of th
N/A	
Certificate of Authorization No. N/A	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist J. Heast	Date October 19 20 15
Signed FL Grass, Quanty Assurance Technical Specialist Owner or Owner's Designee, Title	Date October 19 , 20 15
CERTIFICATE OF INSERVICE	INSDECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press	
North Carolina and employed by HSB Global	
	described in this Owner's Report during the period
A second of the	e 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 C	de, Section XI.
· · ·	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in an	or implied, concerning the examinations and corrective measures described
arising from or/connected with this inspection.	y mainter for any personal injury of property damage of a loss of any kind
JF Swan Joro Me Commissions	NB11473-NC1524, N-1
Inspector's Signature // National Board, Ste	te, Province, and Endorsements
Date	

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 12700 Hagers Ferry Road, Huntersville, NC 28078 2176147-01 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 ASME Code Corrected. Name of Removed, or Stamped Manufacturer Other National Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A Duke Energy N/A N/A Removed Yes 2MCR-CA-69 Yes Duke Energy 39545 N/A N/A N/A Installed 2MCR-CA-69 N/A Yes Duke Energy 23 N/A Removed N/A 2MCR-CA-69 Duke Energy N/A Yes 39544 N/A N/A Installed 2MCR-CA-69 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced snubbers on hanger 2MCR-CA69. Pneumatic Nominal Operation Pressure Exempt 7 8. Tests Conducted: Hydrostatic Other . PSI Test Temp. Pressure Description (Optional):

mation, as Applicable):	Sheet 2 of 2
(nominal) System Class: ASME Class 2	
MCFD-2592-01.00	
2MCR-CA-69	
o., EC No.) if not included elsewhere on NIS-2 Form:	
Applicable Manufacturer's Data Reports to be attack	ned
··	
re correct and that this comorms to the requirements of the	e Asivie Code, Section AI.
	Expiration Date N/A
Specialist 477	Date October 8 , 20 15
enee, Title	, 20 <u>1</u>
CERTIFICATE OF INSERVICE INSPE	CTION
issued by the National Board of Boiler and Pressure Vesse	el Inspectors and the State or Province of
and employed by HSB Global Standard	s of
	ed in this Owner's Report during the period
2000 - 100 -	lief, the Owner has performed examinations and taken corrective
ccordance with the requirements of the ASME Code, Section	
nor his employer makes any warranty, expressed or implied to the liable in any manner	of, concerning the examinations and corrective measures described for any personal injury or property damage or a loss of any kind
and the property of the state o	the carry process and a property constant of a root of any amount
Commissions NB1147	3-NC1524, N-1
National Board, State, Province	e, and Endorsements
	'
	MCFD-2592-01.00 2MCR-CA-69 D., EC No.) if not included elsewhere on NIS-2 Form: Applicable Manufacturer's Data Reports to be attack CERTIFICATE OF COMPLIANCE The correct and that this conforms to the requirements of the second content of

1. Owner _	. Owner Duke Energy Carolinas, LLC			— Date 9/29/2015	······			
-	526 So	uth Church Street, Charlotte, No	C, 28201		- Sheet 1 of 2		_	
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2176148-01			
		Address			Work Order # (or Repair/F	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Perf	formed by	Duke Energy Carolinas, LLC Name			Type Code Symbol Sta			27-10-10-10-10-10-10-10-10-10-10-10-10-10-
		526 South Church Street, Cha	mlatta NIC 20201 1006		Authorization	No.: N/	A	
		Address	arioue, NC 28201-1006		Expiration D	ate: N/	Α	, contraction of the contraction
4. Identificat	ion of Syste	m NC - Reactor Coolant						***************************************
		ruction Code ASME III n of Section XI used for Repair	/Replacement Activity		ion, Summer and Winter 2008 Addenda	Add	enda, N/A	Code Case
(c) Appli	cable Section	n XI Code Case(s) N/A		eranteerande transporterande eranteerande eranteerande eranteerande eranteerande eranteerande eranteerande era				
6. Identificat	ion of Comp	ponents						
Nam Comp		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
e to construct an entitle for distriction on the 2000						77.20	polaronom valo	
Section 1 grows reserve states	Francisco Service Processory Processor Confederacy and Co						A CALLED PROPERTY.	
7. Descriptio	on of Work	Replaced Component	Part/Appurtenance					
Additional	Description	Replaced snubbers o	n hanger 2MCR-NC-42	64				***************************************
8. Tests Con-	ducted: Hy		Nominal Operation	Pressure Exer	npt 🗹 Other 🗌 Pressu	ıre	PSI Test Temp	1.
	r (- Pwo							

9. Remarks (Should Include the Following Information, as Applicable):	Sheet 2	of 2
Component Line Size: 6 in. (nominal) System Class: ASME Class 2		
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).: MCFD-2561-01.00		
Support/Restraint Sketch/Drawing No(s).: 2MCR-NC-4264	**************************************	
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:	AND AND THE CONTRACTOR OF THE CONTRACTOR AND	No. of March States are sequences with the first the states and the sequences of the first section of the second section of the sec
	Annual and Marie Commission of the Commission of	And the state of t
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	namentus materials and a second secon
Signed FL Grass, Quality Assurance Technical Specialist FS Mess	Date September 29	, 20 15
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE INSPECTION	D	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State	or Province of	transmitted to the contract 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 perform	ned examinations and take	n 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 examina	ations and corrective meas	ures described
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury of	property damage or a loss	of any kind
arising from or connected with this inspection.		
JF Swan Promo F. Swan Commissions NB11473-NC1524, N-1		
Inspector's Signature National Board, State, Province, and Endorsements		
Date		

As Required by the Provisions of the ASME Code Section XI Date 9/29/2015 1. Owner Duke Energy Carolinas, LLC 526 South Church Street, Charlotte, NC, 28201 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2176151-01 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: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 ASME Code Corrected. Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A <u>Yes</u> 61218-50 N/A Duke Energy N/A Removed 2MCR-KC-4132 N/A Duke Energy 39520 N/A Yes Yes N/A Installed 2MCR-KC-4132 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced snubber on hanger 2MCR-KC-4132. Pneumatic Exempt 🔽 8. Tests Conducted: Hydrostatic Nominal Operation Pressure Other Pressure PSI Test Temp. Description (Optional):

9. Remarks (Should Include the Following Inform	mation, as Applicable):		Sheet 2	of 2
Component Line Size: 2 in. ((nominal) System Class: <u>ASMI</u>	E 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		der transfer of the second control of the se	
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2	2 Form:		
			A STATE OF THE STA	· ·····
h	Applicable Manufacturer's Data Rep	ports to be attached		
	CERTIFICATE OF CO	MPLIANCE		<u>.</u> .
I certify that the statements made in the report a	re correct and that this conforms to the require	ements of the ASME Code, Section XI.		
Type Code Symbol Stamp N/A				
IVA				
Certificate of Authorization No. N/A		E	xpiration Date N/A	
	and a second contract of the second contract of the second		Permaneng gaman manadahan en man undahan mananan berenga	enterioriză e producenț
Signed FL Grass, Quality Assurance Technical Owner or Owner's Desig	Specialist A. Than		Date September 29	
Owner of Owner's Desig	nee, Title			
				····
I, the undersigned, holding a valid commission	CERTIFICATE OF INSERVI		or Province of	
North Carolina	and employed by HSB Glob		71 110 VIIIO 01	of
Connecticut	*		huming the menied	01
		ents described in this Owner's Report d	~ •	
measures described in this Owner's Report in ac	and state that to the best of my knowle coordance with the requirements of the ASME	edge and belief, the Owner has perform Code, Section XI.	ied examinations and taker	n corrective
By signing this certificate neither the Inspector:	nor his employer makes any warranty, express	sed or implied concerning the examina	tions and corrective measu	res described
in this Owner's Report. Furthermore, neither th	le 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.	1			
TES / ALL F		ND11472 NC1524 N 1		***************************************
JF Swan Inspector's Signature		NB11473-NC1524, N-1 , State, Province, and Endorsements		
(/0-0		, , , · · · · · · · · · · · · · ·		
Date 7-27, 2	025			

1. Owner <u>Duke Er</u>	Owner Duke Energy Carolinas, LLC			— Date 9/18/2015	***************************************		
526 Son	uth Church Street, Charlotte, NO Address	C, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2176154-01			
	Address			Work Order # (or Repair/F	Leplacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol Sta			
	526 South Church Street, Cha	rlotte NC 28201-1006		Authorization	grand at a	and the second s	
	Address	110110, 110 20201 1000		Expiration D	ate: N/	<u> </u>	
4. Identification of System	m KC - Component Cooling				n Thirth accounts access the thirtheonorg		
5. (a) Applicable Constr	\$	Replacement Activity		ion, Summer and Winter 2008 Addenda	Add	enda, N/A	Code Case
(c) Applicable Sectio	n XI Code Case(s) N/A		ar verden verden der der Verden verden verden verden verden verden verden der der der der der der der der der d	The Congress, against the Mile Congress, agree of the Congress, agre	*****		
6. Identification of Comp	oonents						
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	<u>Yes</u>
2MCR-S-KC-171-05B	Duke Energy	39530	N/A	N/A	N/A	Installed	<u>Yes</u>
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	<u>Installed</u>	Yes
						historia	
5						Oliverno, v.	
7. Description of Work	Replaced Component/	Part/Appurtenance			-		
Additional Description	Replaced snubber on	hanger 2MCR-S-KC-1	71-05-B				
8. Tests Conducted: Hy		Nominal Operation	Pressure Exer	npt 🗹 Other 🗌 Pressu	re	PSI Test Temp	
^o F Description (Optio	nal): [

9. Remarks (Should Include the Following Infor				Sheet	t 2 of 2
	(nominal) System Clas	ss: 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	90.000.000.000.000.000.000.000.000.000.			***************************************
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included elsewhere	e on NIS-2 Form:	anner kander den ett men er eine men en eine er eine er eine er eine er eine er eine er eine eine		erroretti on anticolori erroretti erroretti on anticolori erroretti erroretti erroretti erroretti erroretti er
				and the second s	Annual Charles and Control of the Co
	Applicable Manufactur	rer's Data Reports to be attack	hed		
	CERTIFICAT	E OF COMPLIANC	E		
I certify that the statements made in the report a	ire correct and that this conforms to	the requirements of th	e ASME Code, Section 2	KI.	
Type Code Symbol Stamp N/A					1980 Milyani - 1994 Maria Mari
Certificate of Authorization No. N/A				Expiration Date N/A	June Branch Bran
Signed FL Grass, Quality Assurance Technica Owner or Owner's Desi		In those	y niter (1897) ar i chimi dan anggar Obacci Sarra dinishing a a citi chimbata sa Sarra 1843, ara e cat roi	Date September	18, 20 15
					
<u> </u>	CERTIFICATE OF	INSERVICE INSPE	CTION		
I, the undersigned, holding a valid commission	issued by the National Board of Boi	ler and Pressure Vess	el Inspectors and the Stat	e or Province of	
North Carolina	and employed by	HSB Global Standard	ds		of
Connecticut			ed in this Owner's Repor	t during the period	
9-1-15 10 9-18-	and state that to the best of	•	-		taken corrective
measures described in this Owner's Report in a					
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any warran he Inspector nor his employer shall b	ty, expressed or impli- be liable in any manne	ed, concerning the exami r for any personal injury	nations and corrective r or property damage or a	neasures described a loss of any kind
JF Swan JOTOME 1-	wan (Commissions NB1147	73-NC1524, N-1		
Date Inspector's Signature ,		ational Board, State, Province			

1. Owner <u>Duke Er</u>	nergy Carolinas, LLC	· · ·		— Date 9/29/2015		and a second control of the second control o	
526 Sou	uth Church Street, Charlotte, No	C, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2176155-01	***************************************		
	Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol St	***************************************	th "water become got the billion where you apply the enter the paper paper and the paper because by	
	526 South Church Street, Cha	erlotte NC 28201-1006		Authorization		n andre and resource and analysis of the contract of the contr	***
	Address	miotic, 140 20201-1000		Expiration D	ate: N/	A	
4. Identification of Syste	m KC - Component Cooling						
5. (a) Applicable Consti (b) Applicable Editio	ruction Code ASME III on of Section XI used for Repair	/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Section	n XI Code Case(s) N/A					-	
6. Identification of Comp	oonents						
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
						·	
		A CONTRACTOR OF THE CONTRACTOR				Parameter services	
The control of the second seco					-	and the second second	
						The state of the s	
7. Description of Work	Replaced Component	Part/Appurtenance				<u></u>	
Additional Description	Replaced snubber or	hanger 2MCR-S-KC-17	77-01C.				
8. Tests Conducted: Hy oF Description (Option	gar a manage water against aga	Nominal Operation	Pressure Exer	mpt 🗹 Other 🗆 Pressi	ıre	PSI Test Tem	p.
I (- F	, <u></u>						

9. Remarks (Should Include the Following Infor	 :			Sheet	2 of 2	
	(nominal) Syste	em Class: ASME Class	<u>3</u>			
Weld Isometric Drawing No(s).: N/A	g				**************************************	
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	o., EC No.) if not included els	sewhere on NIS-2 Form:				
				,		
	Applicable M	lanufacturer's Data Reports to be	attached			
	CERTIE	FICATE OF COMPLIA	NCE			
I certify that the statements made in the report a				XI.		
Type Code Symbol Stamp N/A						
Certificate of Authorization No. N/A				Expiration Date N/A		
Signed FL Grass, Quality Assurance Technica	Specialist	FAllran		Date September 2	29 , 20 15	
Owner or Owner's Design						
						
		TE OF INSERVICE INS				
I, the undersigned, holding a valid commission	issued by the National Board		A CONTRACT AND A CONTRACT CONT	ate or Province of		
North Carolina	and employ	yed by HSB Global Stan	idards	<u> </u>	of	
Connecticut		ected the components des	cribed in this Owner's Repo	ort 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 a	ccordance with the requireme	ents of the ASME Code,	Section XI.			
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any ne Inspector nor his employer	warranty, expressed or in shall be liable in any ma	nplied, concerning the exam	ninations and corrective m y or property damage or a	neasures described loss of any kind	
JF Swan forone . 1	war-	Commissions NB	11473-NC1524, N-1	The state of the s		
Inspector's Signature		National Board, State, Pro			·	
Date 9-29, 2	20 15					

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC Date 10/8/2015 1. Owner 526 South Church Street, Charlotte, NC, 28201 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 Name 2176160-01 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Built Identification Name of Manufacturer N/A Duke Energy N/A Yes N/A Removed 2MCR-NV-4481 Yes Duke Energy 39518 N/A N/A N/A Installed 2MCR-NV-4481 Replaced Component/Part/Appurtenance 7. Description of Work Additional Description Replaced snubber on hanger 2MCR-NV-4481. Exempt 🔽 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Other PSI Pressure Test Temp. Description (Optional):

Remarks (Should Include the Following Inform	nation, as Applicable):		Sheet $\frac{2}{}$ of $\frac{2}{}$
	nominal) System Class: ASME Cl	lass 2	J
Weld Isometric Drawing No(s).: N/A			
Flow Diagram No(s).:	MCFD-2554-01.02		and the second
Support/Restraint Sketch/Drawing No(s).:	2MCR-NV-4481	AND THE RESIDENCE OF THE RESIDENCE OF THE PROPERTY OF THE PROP	
Other Applicable Information (e.g., W.O. No	, EC No.) if not included elsewhere on NIS-2 For	TIM:	
	Applicable Manufacturer's Data Reports t	to be attached	
	CERTIFICATE OF COMPI	LIANCE	
I certify that the statements made in the report a	e correct and that this conforms to the requirement	nts of the ASME Code, Section XI.	
Type Code Symbol Stamp N/A			
Certificate of Authorization No. No.		Expiration Date	e N/A
Signed FL Grass, Quality Assurance Technical	Specialist Follows	Date Oct	tober 8 , 20 15
Owner or Owner's Design			
I the undersioned helding a valid commission i	CERTIFICATE OF INSERVICE ssued by the National Board of Boiler and Pressur		,
North Carolina	and employed by HSB Global S	Standards	
Connecticut			of
a to the first of the medical post of the medical post of the second of	WEARLOW CONT.	described in this Owner's Report during the peri	
measures described in this Owner's Report in ac	, and state that to the best of my knowledge cordance with the requirements of the ASME Coo	e and belief, the Owner has performed examination of the section XI.	ons and taken corrective
By signing this certificate neither the Inspector of in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any warranty, expressed of e Inspector nor his employer shall be liable in any	or implied, concerning the examinations and corry manner for any personal injury or property dam	ective measures described age or a loss of any kind
JF Swan 10 7 me 1. Mil	Commissions	NB11473-NC1524, N-1	William a warpon, speech of the first construction of the state of the
Inspector's Signature		te, Province, and Endorsements	
Date 10-12, 2	<u>75</u>		

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 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2176161-01 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 ASME Code Corrected. Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A Duke Energy 52 N/A N/A Yes 2MCR-NV-4488 Removed Duke Energy N/A Yes 39538 N/A N/A Installed 2MCR-NV-4488 Duke Energy 55 N/A N/A <u>Yes</u> N/A Removed 2MCR-NV-4488 Duke Energy N/A <u>Yes</u> 2MCR-NV-4488 39547 N/A N/A Installed Replaced Component/Part/Appurtenance 7. Description of Work Additional Description Replaced snubber on hanger 2MCR-NV-4488. 8. Tests Conducted: Hydrostatic Pneumatic ___ Nominal Operation Pressure Exempt Other [Pressure PSI Test Temp.

Description (Optional):

Remarks (Should Include the Following Information)	nation, as Applicable):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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).:	2MCR-NV-4488		
Other Applicable Information (e.g., W.O. No	., EC No.) if not included elsewhere on	NIS-2 Form:	
	Applicable Manufacturer's l	Data Reports to be attached	and the state of t
	CERTIFICATE O	F COMPLIANCE	
I certify that the statements made in the report ar			ion XI.
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		There	Date October 8, 20 15
		· · · · · · · · · · · · · · · · · · ·	
I, the undersigned, holding a valid commission i		SERVICE INSPECTION	State or Province of
North Carolina	and employed by HS	B Global Standards	
Connecticut	I		of
measures described in this Owner's Report in ac	and state that to the best of my		performed examinations and taken corrective
By signing this certificate neither the Inspector of in this Owner's Report. Furthermore, neither the arising from for connected with this inspection.	nor his employer makes any warranty, e e Inspector nor his employer shall be li	expressed or implied, concerning the eable in any manner for any personal in	xaminations and corrective measures described jury or property damage or a loss of any kind
IF Swam teronet. In	Com	missions NB11473-NC1524, N-1	
Inspector's Signature		al Board, State, Province, and Endorsements	
Date $\frac{18-12}{12}$, 2	<u>√</u> 25		· .

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC Date 9/18/2015 1. Owner 526 South Church Street, Charlotte, NC, 28201 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2176162-01 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A Expiration Date: Address 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 Corrected, ASME Code Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Yes Duke Energy 51 N/A N/A N/A Removed 2MCR-NV-4496 N/A Duke Energy 39516 N/A N/A Yes Installed 2MCR-NV-4496 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced snubber on hanger 2MCA-NV-4496. 8. Tests Conducted: Hydrostatic Pneumatic Exempt 🔽 Nominal Operation Pressure Other . Pressure PSI Test Temp. Description (Optional):

9. Remarks (Should Include the Following Inform	nation, as Applicable):			Sheet 2 of 2
Component Line Size: 3 in. (nominal) System Cl	ass: ASME Class 2		
Weld Isometric Drawing No(s).: N/A				
Flow Diagram No(s).:	MCFD-2554-01.02		and the second second to an executive control of the second secon	
Support/Restraint Sketch/Drawing No(s).:	2MCR-NV-4496			100 Y X 1 10 100 100 100 100 100 100 100 100
Other Applicable Information (e.g., W.O. No	., EC No.) if not included elsewher	ere on NIS-2 Form:		
	Applicable Manufact	turer's Data Reports to be attached	····	
··· .·· .··	CERTIFICA	TE OF COMPLIANCE		
I certify that the statements made in the report as	e correct and that this conforms to	o the requirements of the A	ASME Code, Section XI.	
Type Code Symbol Stamp N/A				
Certificate of Authorization No. N/A			Expiration	n Date N/A
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		Than	Date	September 18 , 20 15
	CERTIFICATE OF	INSERVICE INSPECT	TION	
I, the undersigned, holding a valid commission i	ssued by the National Board of Bo	oiler and Pressure Vessel I		ice of
North Carolina	and employed b	HSB Global Standards		of
Connecticut			in this Owner's Report during the	
9-1-15 to 10-12-1 measures described in this Owner's Report in ac	, and state that to the best o	f my knowledge and belie	f, the Owner has performed exam	•
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.				
JF Swan proper. hos		Commissions NB11473-	NC1524, N-1	The second secon
Date Date , 2	0 25	National Board, State, Province, ar	nd Endorsements	

1. Owner Duke Energy Carolinas, LLC			— Date 10/8/2015	Date 10/8/2015					
	526 So	uth Church Street, Charlotte, No Address	C, 28201		- Sheet 1 of 2				
2. Plant		McGuire Nuclear Station Name			Unit 2	Unit 2			
		12700 Hagers Ferry Road, Hu	2176164-01	2176164-01					
		Address			Work Order # (or Repair/F	Replacement	Organization P.O. No., Job	No., etc.)	
3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name			Type Code Symbol Sta	Type Code Symbol Stamp: N/A					
		526 South Church Street, Charlotte, NC 28201-1006			Authorization	Authorization No.: N/A			
	ı	Address	ariotte, NC 28201-1000		Expiration D	ate: N/.	<u>A</u>	- Constant of the Constant of	
4. Identification	on of Syste	m NV - Chemical and Volume	e Control			***************************************		, 20,	
		ruction Code ASME III on of Section XI used for Repair	/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	enda, N/A	_ Code Case	
(c) Applic	able Section	on XI Code Case(s) N/A					4		
6. Identification	on of Com	ponents		<u>.</u>					
Name Compo		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-4	1246	Duke Energy	39	N/A	N/A	N/A	Removed	Yes	
2MCR-NV-4	1246	Duke Energy	39532	N/A	N/A	N/A	Installed	Yes	
2MCR-NV-4	1246	Duke Energy	40	N/A	N/A	N/A	Removed	Yes	
2MCR-NV-4	1246	Duke Energy	39546	N/A	N/A	N/A	Installed	Yes	
a control of the cont	**************************************				A sheet, the control of the control	1	The state of the s		
	a./a. a	The state of the s					S. J. Sandara		
7. Description	n of Work	Replaced Component	/Part/Appurtenance						
Additional I	Description	Replaced snubber or	n hanger 2MCR-NV-42	46.			0.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000	and the construction of th	
8. Tests Cond	lucted: H	ydrostatic Pneumatic P	Nominal Operation	n Pressure Exe	mpt 🔽 Other 🗌 Pressu	ire	PSI Test Temp)	
^o F Descrip	tion (Optio	onal):					·		

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\boxed{2}$ of $\boxed{2}$
Component Line Size: 2 in. (nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: N/A	
Flow Diagram No(s).: MCFD-2554-01.00	AND THE PROPERTY OF THE PROPER
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:	THE CONTRACT OF THE CONTRACT O
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 FM Date Owner or Owner's Designee, Title	October 8 , 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	and the contract of the contra
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during the	period
$\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-$	nations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property of arising from or connected with this inspection.	corrective measures described lamage or a loss of any kind
JF Swan lrove - War Commissions NB11473-NC1524, N-1	
Date	

		As Required by the	Provisions of the ASME C	ode 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, H Address	untersville, NC 28078		2176165-01 Work Order # (or Repair	/Replacement	t Organization P.O. No., Jo	b No., etc.)
3. Work Performed by Duke Energy Carolinas, LLC Name 526 South Church Street, Charlotte, NC 28201-1006 Address			Type Code Symbol S		decomplement of the property o		
			Authorization No.: N/A Expiration Date: N/A			00° 0° 10° 10° 10° 10° 10° 10° 10° 10° 1	
4. Identification of	System CF - Feedwater		······································				
	Construction Code ASME III Edition of Section XI used for Repair	r/Replacement Activity		lition, Summer and Winter ne 2008 Addenda	Ado	denda, N/A	Code Case
(c) Applicable S	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
	COLUMN STATE OF THE STATE OF TH			annual de la constitución de la		Transconder.	_ [
						do not on the second	
And the second s							
general and an activity with the property of the control of the co						To the second se	
7. Description of W	ork Replaced Componen	t/Part/Appurtenance					
Additional Descri	ption Replaced snubber o	n hanger 2MCA-CF-14	5	recognise and agent of the contract of the con			
8. Tests Conducted oF Description (Nominal Operatio	on Pressure	empt 🗹 Other 🗀 Press	sure	PSI Test Tem	p.

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\boxed{2}$ of $\boxed{2}$
	(nominal) System Class: <u>ASME Class 2</u>	
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. N	o., 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 a	re 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 Technica Owner or Owner's Design		September 29 , 20 15
Owner or Owner & Desi	nee, the	
r	CONTRACT OF DISERVICE INSPECTION	
I the undersigned, holding a valid commission	CERTIFICATE OF INSERVICE INSPECTION issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province	ce of
North Carolina	and employed by HSB Global Standards	of
Connecticut	have inspected the components described in this Owner's Report during the	
9-1-15 10 9-29-15	, and state that to the best of my knowledge and belief, the Owner has performed exam	•
	ccordance with the requirements of the ASME Code, Section XI.	manons and taken corrective
	nor his employer makes any warranty, expressed or implied, concerning the examinations and le Inspector nor his employer shall be liable in any manner for any personal injury or property	
JF Swan Jerone t. hu	Commissions NB11473-NC1524, N-1	
Inspector's Signature	National Board, State, Province, and Endorsements	
Date 7-0, 2	01 /	

1. Owner	wner Duke Energy Carolinas, LLC				Date 3/10/2015			
_	526 Soi	uth Church Street, Charlotte, N	IC, 28201		- Sheet 1 of 2			
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, H	untersville, NC 28078		2176178-01			·
		Address			Work Order # (or Repair/F	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Perfo	rmed by	Duke Energy Carolinas, LLC Name	<u> </u>		Type Code Symbol Sta		THE COURT WAS A STATE OF THE COURT OF THE CO	
		526 South Church Street, Ch	parlotte NC 28201-1006		Authorization	grav morro	felder ververer vergeselle villerentreres, om eller til det en en væretin villener været.	
		Address	<u>Idilotte, 140 20201-1000</u>		Expiration D	ate: N/	<u>A</u>	
4. Identification	on of Syste	m ND - Residual Heat Remo	val			***************************************	the territorial and analysis of the territorial and the second and the second as the second as	
		ruction Code ASME III n of Section XI used for Repai	r/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	enda, N/A	Code Case
(c) Applica	able Sectio	n XI Code Case(s) N/A						
6. Identification	on of Comp	oonents						
Name Compor		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-6	406	Duke Energy	49	N/A	N/A	N/A	Removed	No
2MCA-ND-6	406	Duke Energy	39509	N/A	N/A	N/A	Installed	No
**************************************							Yearnoon	
A of the second control of the second contro							The state of the s	
# 1								
							S or theorem 4.	
7. Description	of Work	Replaced Componen	t/Part/Appurtenance					
Additional D	escription	Replaced snubber o	n hanger 2MCA-ND-640	6		***************************************		
8. Tests Cond	•	Sections with a profit mention or region in market in print the print the print in print the print the print in the print	Nominal Operation	Pressure Exer	mpt 🗹 Other 🗀 Pressu	ire	PSI Test Tem	p
^o F Descript	tion (Optio	nai): [-

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		2000
Flow Diagram No(s).: MCFD-2561-01.00		ATTRIBUTE.
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 Expirati	on Date N/A	
Signed FL Grass, Quality Assurance Technical Specialist Jahren Da	March 10	20 15
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 Prov	ince of	***
North Carolina and employed by HSB Global Standards		of
Connecticut have inspected the components described in this Owner's Report during t	_	
3-9-15 to 3-12-15, and state that to the best of my knowledge and belief, the Owner has performed exameasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	minations and taker	n corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations a in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or proper arising from or connected with this inspection.	nd corrective measury damage or a loss	ures described s of any kind
JF Swan erove / war Commissions NB11473-NC1524, N-1		Water and a second
Inspector's Signature National Board, State, Province, and Endorsements		
Date 3-/2, 20-45		:

1. Owner Duke Energy Carolinas, LLC			— Date 3/10/2015	-	A STATE OF THE STA		
526	526 South Church Street, Charlotte, NC, 28201			- Sheet 1 of 2			
2. Plant	Address <u>McGuire Nuclear Station</u> Name	McGuire Nuclear Station					
	12700 Hagers Ferry Road, Hi	intersville, NC 28078		2176179-01	······································		
	Address			Work Order # (or Repair/I	Replacement	Organization P.O. No., Jol	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name	<u></u>		Type Code Symbol Sta	amp: N/	'A	
	526 South Church Street, Ch	arlatta NIC 20201 1006		Authorization	No.: N/	'A	
	Address	arrotte, NC 28201-1000		Expiration D	ate: N/	<u>'A</u>	
4. Identification of Sy	stem NV - Chemical and Volum	e Control					***************************************
5. (a) Applicable Cor (b) Applicable Edi	nstruction Code ASME III ition of Section XI used for Repair			tion, Summer and Winter 2008 Addenda	Add	denda, N/A	Code Case
6. Identification of Co	·						
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	<u>No</u>
						,	Ţ
The second of th							
						(Table)	
7. Description of Wor	k Replaced Component	/Part/Appurtenance				· · · · · · · · · · · · · · · · · · ·	<u>, </u>
Additional Description	on Replaced snubber or	n hanger 2MCA-NV-581	7				
8. Tests Conducted: ^o F Description (Op	The section of the se	Nominal Operation	Pressure Exer	mpt 🗹 Other 🗆 Pressu	ire	PSI Test Tem	p

9. Remarks (Should Include the Following Information of the Following Info	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 3 in.	(nominal) System Class: ASME Class	<u>s 2</u>
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	o., EC No.) if not included elsewhere on NIS-2 Form:	
	Applicable Manufacturer's Data Reports to be	e attached
	CERTIFICATE OF COMPLIA	ANCE.
I certify that the statements made in the report a	are correct and that this conforms to the requirements	
	1	,
Type Code Symbol Stamp N/A		
1		
Certificate of Authorization No. N/A	Address of the control of the contro	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist III	Date March 10 , 20 15
Owner or Owner's Desig		
L		
<u> </u>	CERTIFICATE OF INSERVICE IN	SPECTION
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 Star	ndards of
Connecticut		scribed in this Owner's Report during the period
measures described in this Owner's Report in a	, and state that to the best of my knowledge ar ccordance with the requirements of the ASME Code,	nd belief, the Owner has performed examinations and taken corrective Section XI.
By signing this certificate neither the Inspector	nor his employer makes any warranty, expressed or i	implied, concerning the examinations and corrective measures described nanner for any personal injury or property damage or a loss of any kind
10001 001		311473-NC1524, N-1
Inspector's Signature	National Board, State, Pr	rovince, and Endorsements
Date	.U: <u>4 — 4 .</u>	

1. Owner Duke Energy Carolinas, LLC				— Date 3/12/2015	Date 3/12/2015		
5	26 South Church Street, Charlotte, N Address	6 South Church Street, Charlotte, NC, 28201 Address			Sheet 1 of 2		
2. Plant	McGuire Nuclear Station Name		·	Unit <u>2</u>			
	12700 Hagers Ferry Road, H	untersville, NC 28078		2176180-01			
	Address			Work Order # (or Repair.	Replacement/	Organization P.O. No., Jo	b No., etc.)
3. Work Performed	l by <u>Duke Energy Carolinas, LLC</u> Name	<u> </u>		Type Code Symbol S		The second secon	
	526 South Church Street, Ch	arlotte NC 28201-1006		Authorization	grazaza	CONTRACTOR OF THE PROPERTY OF	
	Address				Date: N/	<u> </u>	
4. Identification of	System NV - Chemical and Volum	e Control					y very construction of the
	Construction Code ASME III Edition of Section XI used for Repair	r/Replacement Activity		ition, Summer and Winter e 2008 Addenda	Add	lenda, N/A	Code Case
(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	<u>No</u>
2MCA-NV-7016	Duke Energy	39527	N/A	N/A	N/A	Installed	<u>No</u>
**************************************						Annual and	
						* management	
						Someone of the second	
7. Description of V	Vork Replaced Componen	t/Part/Appurtenance					
Additional Descri	iption Replaced snubber o	n hanger 2MCA-NV-701	16				7
8. Tests Conducted	Supramation was a state of the same of the	Nominal Operation	Pressure Exe	empt 🗹 Other 🗆 Press	sure	PSI Test Tem	p
^o F Description	(Optional):						

9. Remarks (Should Include the Following Info	= =	•			Sheet 2 of 2
	(nominal)	System Class:	ASME Class 2		
Weld Isometric Drawing No(s).: N/A	ş.				
Flow Diagram No(s).:	MCFD-2555-02.0)			
Support/Restraint Sketch/Drawing No(s).:	2MCA-NV-7016				
Other Applicable Information (e.g., W.O. N	o., EC No.) if not in	ncluded elsewhere on	NIS-2 Form:		
	A	Applicable Manufacturer's E	Data Reports to be atta	ched	
		CERTIFICATE O	F COMPLIANO	CE	
I certify that the statements made in the report a	are correct and that t	this conforms to the r	equirements of the	he ASME Code, Section	on XI.
Type Code Symbol Stamp N/A					
Certificate of Authorization No. N/A	and to Make about the defined the Make about the control of the Apply days (i.e. now in the	ON THE MANAGEMENT OF THE STATE			Expiration Date N/A
Signed FL Grass, Quality Assurance Technica	l Specialist	7 Khan		المالية الماليون والمالية الماليون في ماليون الماليون الماليون الماليون الماليون الماليون والماليون الماليون ا - الماليون الماليون والماليون الماليون في ماليون الماليون الماليون الماليون الماليون الماليون الماليون الماليون	Date March 12 , 20 15
Owner or Owner's Design		V			
<u> </u>		TIFICATE OF INS			C4-4 D
I, the undersigned, holding a valid commission		770	na Pressure vess B Global Standar		
North Carolina		ind cimployed by [of
Connecticut	Canada and Anna Anna Anna Anna Anna Anna	-	-		eport during the period
3-9-15 to 3-23		hat to the best of my l	mowledge and b	elief, the Owner has pe	erformed examinations and taken corrective
measures described in this Owner's Report in a	accordance with the	requirements of the A	ASME Code, Sec	ction XI.	
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the	nor his employer m	nakes any warranty, e employer shall be lia	xpressed or impl	ied, concerning the exe er for any personal init	aminations and corrective measures described
arising from or connected with this inspection.			, , , , , , , , , , , , , , , , , , , ,	J. S.	;
	/				
JF Swan Propre /	wow			73-NC1524, N-1	
Inspector's Signature		Nationa	i board, State, Provinc	ce, and Endorsements	
Date 3-23,	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 Date 3/16/2015							
520	6 South Church Street, Charlotte, 1 Address	NC, 28201		— Sheet 1 of 2			
2. Plant	2. Plant McGuire Nuclear Station Name						
	12700 Hagers Ferry Road, F			2176182-01	-/P onless on one	Organization P.O. No., Jo	
3. Work Performed	by <u>Duke Energy Carolinas, LL</u> Name 526 South Church Street, C	Duke Energy Carolinas, LLC				'A 'A 'A	o No., etc.)
4. Identification of S	System NV - Chemical and Volum	ne Control					
(b) Applicable E	onstruction Code ASME III dition of Section XI used for Repa	sir/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Ado	denda, N/A	Code Case
6. Identification of C	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	<u>No</u>
2MCA-NV-5010	Duke Energy	39521	N/A	N/A	N/A	Installed	No
							
						organism of the state of the st	
A CONTROL OF THE PROPERTY OF T							
7. Description of W	ork Replaced Componer	nt/Part/Appurtenance					
Additional Descrip	Replaced snubber of	on hanger 2MCA-NV-50	010.				
8. Tests Conducted: oF Description (C		Nominal Operation	on Pressure E	kempt 🗹 Other 🗌 Pres	ssure	PSI Test Tem	ip.

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	The same of the sa
Signed FL Grass, Quality Assurance Technical Specialist J. Hanne Date Mar.	ch 16	, 20 15
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	od	
$\frac{3-\sqrt{2}-\sqrt{5}}{10}$ to $\frac{3-2\sqrt{5}}{10}$, and state that to the best of my knowledge and belief, the Owner has performed examination measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ns and take	n corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corre in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property dama arising from of connected with this inspection.	ective measu age or a loss	ares described of any kind
JF Swan Jerope . Juan Commissions NB11473-NC1524, N-1	**************************************	
Inspector's Signature National Board, State, Province, and Endorsements		
Date		

1. Owner Duke Energy Carolinas, LLC				Date 10/4/2015	Date 10/4/2015			
	526 So	uth Church Street, Charlotte, N Address	IC, 28201		- Sheet 1 of 2	and the second		
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, H	untersville, NC 28078		2176187-01	the free production and the first of the fir		***************************************
		Address			Work Order # (or Repair	r/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Perfo	ormed by	<u>Duke Energy Carolinas, LL</u> Name	<u>C</u>		Type Code Symbol S		and a facility from the property of the section of	
		526 South Church Street, Cl	andotte NC 22201 1006		Authorizatio	n No.: N	A	· W///
		Address	Expiration	Date: N/	<u>'A</u>			
4. Identification	on of Syste	m VI - Instrument Air						
(b) Applic	able Editio	ruction Code ASME III on of Section XI used for Repa	ir/Replacement Activity		ition, Summer and Winter e 2008 Addenda	Ado	lenda, N/A	Code Cas
		on XI Code Case(s) N/A						
6. Identificati	on of Comp	onents		· -			<u>, , , , , , , , , , , , , , , , , , , </u>	
Name Compo		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	8	Duke Energy	46	N/A	N/A	N/A	Removed	Yes
2MCR-VI-18	8	Duke Energy	39517	N/A	N/A	N/A	Installed	Yes
		Account + 110 for the spiriture state - spiriture states after the spiriture states and spiriture states are spiriture states and spiriture states are spiriture states as the spiriture states are spiriture states	Section in the contract where the contract in	Andrew 1 (1)			and the second s	
	and the second second second second second		4		The supplication of the su		Someone and	
	The second secon						general constraints of the const	
And a new org. Confidence of the state of th	ggers and growing programme and an analysis of the second		Total Manager	The state of the s			and the state of t	
7. Description	n of Work	Replaced Componen	t/Part/Appurtenance					
Additional I	Description	Replaced snubber of	n hanger 2MCR-VI-18					
8. Tests Cond		The second secon	Nominal Operation	Pressure Exe	empt Other Pres	sure	PSI Test Ten	np.
°F Descrip	otion (Optic	mai):						

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{}$ of $\frac{2}{}$
Component Line Size: 2 in. (nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: N/A	
Flow Diagram No(s).: MCFD-2605-01.02	Сомицион и поможения поможения и тому, гозородного рожений раздолого дорого. Ал экупералын поможения дого экуп
Support/Restraint Sketch/Drawing No(s).: 2MCR-VI-18	COM 17 CO
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:	
Applicable Manufacturer's Data Reports to be attached	
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration	Date N/A
Signed FL Grass, Quality Assurance Technical Specialist Date	October 4 , 20 15
Owner or Owner's Designee, Title	<u> </u>
<u>La como como como que que que sere que se /u>	
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	e of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during the	period
measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	nations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property arising from or connected with this inspection.	
JF Swan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date	

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/15/2015 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 2176482-03 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 Authorization No.: N/A 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 4. Identification of System NV - Chemical and Volume Control 19 71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 Corrected, ASME Code Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Dresser TE09047 291 N/A 1978 Yes Removed 2NV93 TG33993 1879 UTC# 2054732 Yes 1984 Dresser Installed 2NV93 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced valve 2NV93

Nominal Operation Pressure

Pneumatic

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

8. Tests Conducted: Hydrostatic

Exempt

Other [

Pressure

Test Temp. _

9. Remarks (Should Include the Following Information Component Line Size: 4 X 6 in.	mation, as Applicable): (nominal) System Class: ASMI	E Class 2	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Weld Isometric Drawing No(s).: MCFI-2N	• •		
Flow Diagram No(s).:	MCFD-2554-01.01		
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2	Form:	
	Applicable Manufacturer's Data Rep	orts to be attached	
<u> </u>	CERTIFICATE OF COM		
I certify that the statements made in the report a	re correct and that this conforms to the require	ments of the ASME Code, Section	XI.
Type Code Symbol Stamp N/A	The second secon	e de la lace de la companya de la c	
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist 999	and the second s	Date October 15 20 15
Owner or Owner's Design		<u></u>	Date, 20
	CERTIFICATE OF INSERVI		
I, the undersigned, holding a valid commission			ate or Province of
North Carolina	and employed by HSB Glol		of
Connecticut	have inspected the compone	ents described in this Owner's Repo	ort during the period
$\frac{9-29-15}{\text{measures described in this Owner's Report in a}}$, and state that to the best of my knowledge coordance with the requirements of the ASME	edge and belief, the Owner has performed Code, Section XI.	formed examinations and taken corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection,	nor his employer makes any warranty, express of inspector nor his employer shall be liable in	ed or implied, concerning the exam any manner for any personal injury	ninations and corrective measures described or property damage or a loss of any kind
JF Swan Jerope F. Ju		ns NB11473-NC1524, N-1	
Inspector's Signature	National Board,	State, Province, and Endorsements	
Date	0[



ALEXANDRIA, LOUISIANA 7:301

FORM NV-1 H CERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES" (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION [1], DIV. 1)

WANUFACTURED FOR			ss of n certificate h		28232
	(NAM)	E AND ADDRESS	F PURCHASER OR OWNER	()	Fond 2021
LOCATION OF INSTALL	ATION DUKE POWE	r co., McGi	of purchaser or owner lire Nuc. Sta/Hw	y 73, Cowans	. Cornelius
	f 16 war	C MISS MODIFESS!	1879		84
(CRN)	NC302	V6 \	(NATL. BRD. NO.)	_	•
4_1910_	30P-2-XMB1-NC3			TG-33993	ug ici y
VALVE	-		IDENTIFYING NOS	ERTIFICATE HOLDE	RS' SERIAL NO
Saf	et No. series No.) ety Relief	21.455		2	JEHING HVI
YPE	(SAFETY, SAFETY RI		HER ACTUATED)		
GRIFICE SIZE	3.073	NGMINAL INL	7	_ OUTLET SIZE _	6
Unii 102 3122	INCH	_	INCH	Satura	INCH
SET PRESSURE(PSIG)	150) 	RATED TEMPERATURE		°F
	ER 688	10			7.5
STAMPED CAPACITY	SAT. STEAM	LBS/KR. &	S OVERPRESSURE	_	
	##0	See Below	A1171 ET	***Se	e Below
HYDROSTATIC TEST (P	SIG) INLET		DUILE!		A. a
			(APPLICABL	E TO VALVES FOR	CLOSED SYSTEMS
PRESSURE RETAINING			• • • • • • • • • • • • • • • • • • • •		
PRESSURE RETAINING	SERIAL	NO. OR Floation	MATER	E TO VALVES FOR AL SPECIFICATION TYPE OR GRADE	
	SERIAL IDENTII		MATER	AL SPECIFICATION	N
BOCA	SERIAL IDENTII		MATER	AL SPECIFICATION TYPE OR GRADE SA351, Gr.	CF8M
BOOY BONNET OR YOKE	SERIAL IDENTII		MATER	AL SPECIFICATION	CF8M
BOOY BONNET OR YOKE SUPPORT ROOS	SERIAL IDENTII AAR19 AAP48		MATER	SA351, Gr.	CF8M CF8M
BOOY BONNET OR YOKE SUPPORT ROOS NOZZLE	SERIAL IDENTII AAR19 AAP48 AAE04		MATER	SA351, Gr. SA351, Gr. SA351, Gr.	CF8M CF8M F316
BOOY BONNET OR YORE SUPPORT ROOS NOZZLE OISC	SERIAL IDENTII AAR19 AAP48		MATER	SA351, Gr.	CF8M CF8M F316
	SERIAL IDENTII AAR19 AAP48 AAE04		MATER	SA351, Gr. SA351, Gr. SA351, Gr.	CF8M CF8M F316
BOOY BONNET OR YORE SUPPORT ROOS NOZZLE DISC SPRING WASHERS	SERIAL IDENTII AAR19 AAP48 AAE04		MATER	SA351, Gr. SA351, Gr. SA351, Gr.	CF8M CF8M F316
BOOY BONNET OR YOKE SUPPORT ROOS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW	AAR19 AAR19 AAP48 AAE04 A18236	FICATION	MATER	SA351, Gr. SA351, Gr. SA351, Gr. SA351, Gr. SA182, Gr. SA479, Type	CF8M CF8M F316 316
BOOY BONNET OR YOKE SUPPORT ROOS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW SPINOLE SPRING BOLTING Studs	SERIAL IDENTII AAR19 AAP48 AAE04	FICATION	MATER	SA351, Gr. SA351, Gr. SA351, Gr.	CF8M CF8M F316 316
BOOY BONNET OR YOKE SUPPORT RODS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW SPINDLE SPRING BOLTING STUCKS OTHER PIECES	AAR19 AAR19 AAP48 AAE04 A18236	FICATION	MATER	SA351, Gr. SA351, Gr. SA351, Gr. SA479, Type	CF8M CF8M F316 316
BOOY BONNET OR YOKE SUPPORT ROOS NOZZLE DISC SPRING WASHERS ADJUSTING SCREW SPINOLE SPRING BOLTING Studs	AAR19 AAR19 AAP48 AAE04 A18236	FICATION	MATER	SA351, Gr. SA351, Gr. SA351, Gr. SA351, Gr. SA182, Gr. SA479, Type	CF8M CF8M F316 316

*SUPPLEMENT SHEETS IN FORM OF LISTS. SKETCHES OR DRAWINES 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

1. Owner <u>Duke Energy</u>	Carolinas, LLC		<u>-</u>	Date 10/7/2015			
	hurch Street, Charlotte, N	C, 28201		Sheet 1 of 2			
2. Plant <u>McC</u>	Guire Nuclear Station Name			Unit 2			
1270	00 Hagers Ferry Road, Hi	intersville, NC 28078		2176482-14	***************************************	alledelininassassas elektrikoleinina, nartajaja elektriko (k. 18. svolukskis jalvalenin (k. 1844). Sagay Vill,	3
	Address			Work Order # (or Repair	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by <u>Dul</u>	ke Energy Carolinas, LLO Name	<u> </u>		Type Code Symbol St	57	AN WARRY STATE OF THE STATE OF	Andrew Colonia and and and and and and and and and an
526	South Church Street, Ch	arlotte NC 28201-1006		Authorization	***************************************	enclased and appropriate and the control of the con	
<u>520</u>	Address	<u> </u>		Expiration I	Date: N/	A	
4. Identification of System N	V - Chemical and Volum	e Control			*********************************	***************************************	
5. (a) Applicable Construction (b) Applicable Edition of S	Section XI used for Repai	r/Replacement Activity		dition, Summer and Winter ne 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Section XI	, .						
6. Identification of Componen	ts	· · · · · · · · · · · · · · · · · · ·					
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 Duk	e Energy	N/A	N/A	N/A	N/A	Corrected	Yes
	enegational de la		3			t t	
	angual and control to the last of the fine for the control to the control to the control to the control to the					The state of the s	
	an and the second and					A popularia de constante de la constante de	7
					The second secon	de contraction de la contracti	
The control of the co	annangaranna, asalahan apadar 1974 k. Jangsidan C. Jangsidan C. Jangsidan and S. Jangsidan and S. Salaha Angsi Angsidan di Propagalahan angsidan angsidan angsidan angsidan angsidan angsidan ang S. Jangsidan ang S. Jangsidan					S. december.	
7. Description of Work	Weld Repair						
Additional Description	Re-welded hanger 2	MCR-NV-4217.		rhiona, quamorthi a d'articonde (sporte): Plantophragagi, Athirdayina, prayord destil d'Albidoù a 1944 (1861) allor allora, per			A PARTICIPATION OF THE PARTICI
8. Tests Conducted: Hydrost	atic Pneumatic	Nominal Operation	n Pressure 🗀 Ex	empt 🖸 Other 🗀 Press	ure	PSI Test Tem	p.
^o F Description (Optional):							

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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	o., EC No.) if not included elsewhere on NIS-2 Form:	This plants were assumed the page of the second of the sec
gradien 175, per Major to 177 Mar, per 150 a. per 150 a		
	Applicable Manufacturer's Data Reports to be atta	iched
	CERTIFICATE OF COMPLIANC	
I certify that the statements made in the report a	are correct and that this conforms to the requirements of the	he ASME Code, Section XI.
Type Code Symbol Stamp N/A		
IVA		······································
Certificate of Authorization No. N/A		Expiration Date N/A
		0.1.7
Signed FL Grass, Quality Assurance Technical Owner or Owner's Desig		Date October 7 , 20 15
 	CERTIFICATE OF INSERVICE INSPI	ECTION
I. the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Ves	
North Carolina	and employed by HSB Global Standar	The property of the particular and the particular a
Connecticut	**************************************	bed in this Owner's Report during the period
10-1-15 to 10-13-	the connection particular	elief, the Owner has performed examinations and taken corrective
	ccordance with the requirements of the ASME Code, Sec	
By signing this certificate neither the inspector in this Owner's Report Furthermore neither the	nor his employer makes any warranty, expressed or impli-	lied, concerning the examinations and corrective measures described er for any personal injury or property damage or a loss of any kind
arising from or gonnected with this inspection.	Symptotos nos mo employes shan oe made in any mann	or for any percental injury or property diamage or a ross or any limit
JF Swan Jarore J. Ju	Commissions NB114	
Inspector's Signature	National Board, State, Province	ce, and Endorsements

1. Owner <u>Duke E</u>	er Duke Energy Carolinas, LLC			- Date 10/13/2015				
526 So	526 South Church Street, Charlotte, NC, 28201 Address			- Sheet <u>1</u> of <u>2</u>	•			
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2176818-04	,	•		
	Address			Work Order # (or Repair/Re	placement (Organization P.O. No., Jo	b No., etc.)	
3. Work Performed by	Duke Energy Carolinas, LLC			Type Code Symbol Star	Type Code Symbol Stamp: N/A			
	Name				27/4			
	526 South Church Street, Charlotte, NC 28201-1006 Address		Expiration Date: N/A					
4. Identification of Syste	e m	· · · · · · · · · · · · · · · · · · ·	et e e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·		· .		
, . - -	ruction Code ASME III on of Section XI used for Repair	/Replacement Activity		ion, Summer and Winter 2008 Addenda	Add	enda, <u>N/A</u>	Code Cas	
(c) Applicable Section	on XI Code Case(s) N/A	· · · · · · · · · · · · · · · · · · ·						
6. Identification of Com	ponents							
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Cod Stamped (Yes or No	
	Cracher	156025 00 0000	526	NT/A	1070	D 1	Vec	

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	Removed	Yes
2NC1	Crosby	N56925-00-0001		N/A	1974	<u>Installed</u>	Yes
The second secon	Control of the Contro						
				a same composer in the property)	
				·			
		·					

7. Description of Work	Replaced Component/Par	rt/Appurtenance					
Additional Description	Replaced valve 2NC1.	,					
8. Tests Conducted: Hydrostatic	Pneumatic	Nominal Operation Pressure	Exempt	Other	Pressure 2250	PSI Test Temp. 558	3.1
^o F Description (Optional): <u>Te</u>	st performed per procedu	re MP/0/A/7700/045 & MP/0/A/70	650/076 (full temp	erature and	pressure walkdown	on W/O 2177930-01).	

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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:	<u> </u>
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	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. No. N/A Expiration	n Date N/A
	0.41-40
Signed FL Grass, Quality Assurance Technical Specialist Owner or Owner's Designee, Title	e October 13 , 20 15
CHIECO CHIECO DESIGNATION CONTRACTOR CONTRAC	
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 Proving	ice of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during the	
$\frac{10-1-15}{10-13-15}$, and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	imations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property	
arising from of connected with this inspection	damage of a loss of any kind
JF Swan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date / 10-13 20/5	
, 204	

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

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/20/2015 526 South Church Street, Charlotte, NC, 28201 Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2177064-01 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 4. Identification of System NV - Chemical and Volume Control 19 71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 Corrected. ASME Code Name of Removed, or Stamped Manufacturer Other National Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer ITT Grinnell 73-8013-6-9 WR708 Yes N/A 1974 2NV496 Corrected 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 : Test Temp. Description (Optional): Visual functional.

9. Remarks (Should Include the Following Information of the Following Info	mation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2N	V163	
Flow Diagram No(s).:	MCFD-2554-02.00	
Support/Restraint Sketch/Drawing No(s).:	N/A	
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2 Form:	
and the second s		
	Applicable Manufacturer's Data Reports to be attach	ned
	CERTIFICATE OF COMPLIANCE	<u> </u>
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the	e ASME Code, Section XI.
Type Code Symbol Stamp N/A	. The state of the	and the second of the second o
, IVA		
	· · · · · · · · · · · · · · · · · · ·	Expiration Date N/A
·	The same of the sa	
Signed FL Grass, Quality Assurance Technical	Specialist Thus	Date October 20 , 20 15
Owner or Owner's Desig	nee, Title	
	CERTIFICATE OF INSERVICE INSPEC	
in the contract of the contrac	issued by the National Board of Boiler and Pressure Vesse	
North Carolina	and employed by HSB Global Standard	
Connecticut	The state of the s	ed in this Owner's Report during the period
measures described in this Owner's Report in ac	and state that to the best of my knowledge and bel coordance with the requirements of the ASME Code, Secti	ief, the Owner has performed examinations and taken corrective on XI.
•	•	
By signing this certificate neither the Inspector	nor his employer makes any warranty, expressed or implie	ed, concerning the examinations and corrective measures described
arising from/or connected with this inspection.	e inspector nor his employer shall be hable in any manner	for any personal injury or property damage or a loss of any kind
JF Swan / lrope 1- /	war Commissions NB1147	3-NC1524, N-1
Inspector's Signature	National Board, State, Province	
	15 C	
Date	0	

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 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 2177437-28 12700 Hagers Ferry Road, Huntersville, NC 28078 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: Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 Corrected, ASME Code Name of Removed, or Stamped Manufacturer Other National Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Duke Energy Yes N/A N/A N/A N/A Corrected 2MCR-NV-4380 Replaced Component/Part/Appurtenance 7. Description of Work Additional Description Replaced bolting material on hanger 2MCR-NV-4380. Pneumatic [8. Tests Conducted: Hydrostatic Nominal Operation Pressure Exempt 🔽 Other 🗔 Pressure PSI Test Temp. Description (Optional):

Remarks (Should Include the Following Information)	mation, as Applicable):	Sheet 2 of 2
	(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	was a sufficient and distribution or could be supported to the support of the sup
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included elsewhere on NIS-2 Form:	
and the second s	Applicable Manufacturer's Data Reports to be attached	ned
	CERTIFICATE OF COMPLIANCE	3
I certify that the statements made in the report a	are correct and that this conforms to the requirements of the	e 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 Ja Manue	Date October 7 , 20 15
Owner or Owner's Desig		
<u> </u>		
	CERTIFICATE OF INSERVICE INSPEC	CTION
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vessel	l Inspectors and the State or Province of
North Carolina	and employed by HSB Global Standards	sof
Connecticut		ed in this Owner's Report during the period
	, and state that to the best of my knowledge and beliccordance with the requirements of the ASME Code, Section	ief, the Owner has performed examinations and taken corrective on XI.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes any warranty, expressed or impliente Inspector nor his employer shall be liable in any manner	ed, concerning the examinations and corrective measures described for any personal injury or property damage or a loss of any kind
IF Swan erome F. Swa	Commissions NB11473	3-NC1524, N-1
Inspector's Signature (National Board, State, Province,	

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 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2177437-29 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 4. Identification of System NV - Chemical and Volume Control 19 71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 ASME Code Corrected. Name of Stamped Removed, or Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A **Duke Energy** N/A N/A N/A Yes Corrected 2MCR-NV-4381 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced bolting material on hanger 2MCR-NV-4381. Pneumatic T: Exempt 🔽 8. Tests Conducted: Hydrostatic Nominal Operation Pressure Other | Pressure _ _ Test Temp. _ Description (Optional):

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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:	
II on the second of the second	
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	piration Date N/A
Continuate of Authorization 140.	
Signed FL Grass, Quality Assurance Technical Specialist Thum	Date October 20 , 20 15
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 du	
10-2-15 to $10-20-15$, and state that to the best of my knowledge and belief, the Owner has performed the ASME Code Section YI	ed 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 gertificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinati	ons 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 p	property damage or a loss of any kind
arising from or connected with this inspection.	
man and the second of the seco	
JF Swan Commissions NB11473-NC1524, N-1 Inspector's Signature National Board, State, Province, and Endorsements	
Inspector's Signature / Inspec	
Date	
Date / / D - 2 D , 20 / 5	

(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 Manufacturer National Other Year Removed, or Stamped	1. Owner	Duke Er	nergy Carolinas, LLC		-		Date 10/20/2015			
Name Name of Component Name of Manufacturer Name of Manufacturer Name of Component Name of		526 Sor		e, NC, 28201						
Address Mork Performed by Duke Energy Carolinas, LLC Name Type Code Symbol Stamp: Mork M	2. Plant			ue			Unit 2			
3. Work Performed by Duke Energy Carolinas, L1C Nume S26 South Church Street, Charlotte, NC 28201-1006 Address 4. Identification of System (b) Applicable Construction Code ASME III (b) Applicable Edition of Section XI code Case(s) (c) Applicable Section XI Code Case(s) Name of Components Name of Components VI system Duke Energy N/A S55 N/A S67 Name of Manufacturer Serial No. Name of Components Name of Components Name of Components Name of Repair/Replacement Activity Serial No.		12700 Hagers Ferry Road	Huntersville, NC 28078			2177837-15			a teri	
Name S26 South Church Street, Charlotte, NC 28201-1006 Address 4. Identification of System VI - Instrument Air 5. (a) Applicable Construction Code ASME III (b) Applicable Section XI Code Case(s) N/A 6. Identification of Components Name of Components VI System Duke Energy N/A NAMe of Manufacturer Serial No. NAMe of Material Winter Addenda Other Persure PSI Test Temp. PSI Test Temp.					•		Work Order # (or Repair/R	Replacement	Organization P.O. No., Jo	b No., etc.)
Authorization No.: N/A	3. Work Per	formed by					Type Code Symbol Sta	mp: <u>N</u>	'A	
Address Expiration Date: MA 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 Name of Manufacturer Serial No. Serial No. No. 1982 Corrected Yes or No. N							Authorization :	No.: N	'A	<u> </u>
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 Serial No. VI System Duke Energy N/A 55 N/A 1982 Corrected Yes or No. 7. Description of Work Additional Description 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.							Expiration D	ate: N	'A	
5. (a) Applicable Construction Code ASME III (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 Serial No. No.	4. Identifica	tion of Syste	m VI - Instrument Air						· · · · · ·	· · · · · ·
6. Identification of Components Name of Component Name of Manufacturer Serial No. Seria			ruction Code ASME III					Add	lenda, <u>N/A</u>	Code Cas
Name of Component Name of Manufacturer Name of Manufacturer Serial No. NAME of Manufacturer Built Serial No. NAME code Stamped (Yes or No.) Year Built Serial No. NAME code Stamped (Yes or No.) Yes Yes Yes Additional Description of Work Replaced Component/Part/Appurtenance Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.	(c) Appl	icable Sectio	n XI Code Case(s) N/A				- 			
Name of Component Name of Manufacturer Serial No. No. No. No. No. No. No. No.	6. Identifica	tion of Comp	onents		·					
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.			Name of Manufacturer						Removed, or	ASME Code Stamped (Yes or No)
Additional Description Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.	VI System		Duke Energy	N/A	55	N	/A	1982	Corrected	Yes
Additional Description Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.			A company of the second	en en j	and the second s	10.00	The second secon			
Additional Description Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.		المراجع المراجع المراجع	The second secon	The state of the s	The second secon		The first of the second se			
Additional Description Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.			A SAN AND THE SAN AND AND AND AND AND AND AND AND AND A							
Additional Description Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.			- grant William and the second	A CONTROL OF THE CONT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		**************************************	 	 	†
Additional Description Replaced 2SM5 control panel and remade VI connections. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.		*				+	<u> </u>	1		
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operation Pressure Exempt Other Pressure PSI Test Temp.	7. Description	on of Work	Replaced Compo	nent/Part/Appurtenance		<u>- 1-</u>		I	- 	
	Additional	Description	Replaced 2SM5	control panel and remade V	I connections.				-	
		-	,			empt	Other Pressu	re	PSI Test Ten	np

Remarks (Should Include the Following Information	nation, as Applicable):		Sheet $\frac{Z}{Z}$ of $\frac{Z}{Z}$
Component Line Size: 11/2 in. ((nominal) System C	lass: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2V	<u>[134</u>		
Flow Diagram No(s).:	MCFD-2605-01.18		
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. No			
	en la proposición de la companya de	and the second s	
	Applicable Manufac	cturer's Data Reports to be attached	
	CERTIFICA	TE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms t	to the requirements of the ASME Code, S	Section XI.
Type Code Symbol Stamp N/A	The property of the second control of the se		
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A	ing samuan sa	en e	Expiration Date N/A
			•
Signed FL Grass, Quality Assurance Technical		7 Muse	Date October 20 , 20 15
Owner or Owner's Desig	nee, Title		
		F INSERVICE INSPECTION	
I, the undersigned, holding a valid commission	ssued by the National Board of B	loiler and Pressure Vessel Inspectors and	the State or Province of
North Carolina		HSB Global Standards	of
Connecticut	7.14 Tarent	the components described in this Owner	
9-18-D to 10-20-	$\frac{2}{2}$, and state that to the best c	of my knowledge and belief, the Owner h	as performed examinations and taken corrective
measures described in this Owner's Report in ac	cordance with the requirements of	of the ASME Code, Section XI.	
By signing this certificate neither the Inspector	nor his employer makes any warr:	anty, expressed or implied, concerning th	ne examinations and corrective measures described
in this Owner/\$ Report. Furthermore, neither/th	e Inspector nor his employer shal	l be liable in any manner for any persona	al injury or property damage or a loss of any kind
arising from of connected with this inspection.			
JF Swan JORDANO F- Sast	·	Commissions NB11473-NC1524, N-1	
Inspector's Signature		National Board, State, Province, and Endorsements	
1/1000			•
Date , 2	0 1		
T .			

1. Owner <u>Duke E</u>	nergy Carolinas, LLC		TIOVISIONS OF THE PASSAGE CO	— Date 10/10/2015		• • • •	
526 So	uth Church Street, Charlotte, Address	NC, 28201		— Sheet <u>1</u> of <u>2</u>			
2. Plant	McGuire Nuclear Station Name			Unit 2		e e e	er or er s
	12700 Hagers Ferry Road, Addres			2177864-15 Work Order # (or Repair/R	enlacement	Organization P.O. No. To	No eta)
3. Work Performed by	Duke Energy Carolinas, L.			Type Code Symbol Sta	mp: <u>N/</u>	A	5 No., etc.)
	526 South Church Street, C			Authorization I Expiration Da			-
4. Identification of Syste	m VI - Instrument Air	and the same of the control of the c	en e a person e qui per per per e	and the state of t	,		
(b) Applicable Edition	ruction Code ASME III on of Section XI used for Rep on XI Code Case(s) N/A	air/Replacement Activity		ition, Summer and Winter e 2008 Addenda	Add	lenda, <u>N/A</u>	_ Code Case
` '	``		···				
6. Identification of Comp 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	<u>Yes</u>
					50 10 10 ₁₁ 1		
e e e e e e e e e e e e e e e e e e e							·
7. Description of Work Additional Description	part many production of the confidence and the	ent/Part/Appurtenance ontrol panel and remade V	T connections.				
8. Tests Conducted: Hy F Description (Option	ydrostatic Pneumatic onal): Test performed per pre	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		empt Other Pressu	re	PSI Test Tem	p

Component Line Size: 1/2 in. (nominal) System Class: ASME Class: 3 Weld Isometric Drawing No(s): MCFI-2V1134 Flow Diagram No(s): MCFI-2V1134 Support/Restraint Sketch/Drawing No(s): NA 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. NA Expiration Date N/A Certificate of Authorization No. NA Expiration Date N/A CERTIFICATE OF INSERVICE INSERCTION 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 Connection North Carolina have inspected the components described in this Owner's Report during the period North Carolina have inspected the components described in this Owner separate that 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 in accordance with the requirements of the ASME Code, Section XI. By signing this certificate 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 front or connected with this inspection. Inspector's Signature Commissions NB11473-NC1524, N-1 Netional Board, State, Province, and Endorsements	9. Remarks (Should Include the Following Info	rmation, as Applica	able):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Flow Diagram No(s): MCFD-2605-01.00 Support/Restraint Sketch/Drawing No(s): N/A	Component Line Size: 11/2 in.	(nominal)	System Class: ASME Class 3	
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 statched 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 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	Weld Isometric Drawing No(s).: MCFI-2V	/I134		
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	Flow Diagram No(s).:	MCFD-2605-01.	.00	
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 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 have inspected the components 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 WAYAL MAA Commissions NB11473-NC1524, N-1	Support/Restraint Sketch/Drawing No(s).:	N/A		
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's Designee, Tide 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 Connecticut have inspected the components described in this Owner's Report during the period have inspected the components described in this Owner's Report during the period 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 Warrant Awar Commissions NB11473-NC1524, N-1	Other Applicable Information (e.g., W.O. N	lo., EC No.) if not i	included elsewhere on NIS-2 Form:	
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 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 Connecticut have inspected the components described in this Owner's Report during the period have inspected the components described in this Owner's Report during the period 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 Warrant Awar Commissions NB11473-NC1524, N-1		and the second second second second second	The state of the s	
Type Code Symbol Stamp N/A Certificate of Authorization No. NIA Expiration Date N/A Certificate of Authorization No. Noner 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 North Carolina and employed by HSB Global Standards of North Carolina and employed by HSB Global Standards of North Carolina and employed by HSB Global Standards of Segont during the period North Carolina and employed by HSB Global Standards of North Carolina and employed by HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period North Carolina and employed by HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period Above inspected the components 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. Commissions NB11473-NC1524, N-1			Applicable Manufacturer's Data Reports to be attached	d
Certificate of Authorization No. N/A Expiration Date N/A Signed FL Grass, Quality Assurance Technical Specialist 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 Connecticut have inspected the components described in this Owner's Report during the period A lower'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 Warrant Awar Commissions NB11473-NC1524, N-1			CERTIFICATE OF COMPLIANCE	
Certificate of Authorization No. N/A Signed FL Grass, Quality Assurance Technical Specialist 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 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. Commissions NB11473-NC1524, N-1	I certify that the statements made in the report a	are correct and that	t this conforms to the requirements of the A	ASME Code, Section XI.
Certificate of Authorization No. N/A Signed FL Grass, Quality Assurance Technical Specialist 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 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. Commissions NB11473-NC1524, N-1	True Code Symbol Storm	and the same of th	and the same of the same property and a superpose of the same states of the same states and the same states and the same states are same states are same states and the same states are same s	
Signed FL Grass, Quality Assurance Technical Specialist 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 have inspected the components described in this Owner's Report during the period have inspected the components described in this 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. Commissions NB11473-NC1524, N-1	Type Code Symbol Stamp N/A			
Signed FL Grass, Quality Assurance Technical Specialist 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 have inspected the components described in this Owner's Report during the period have inspected the components described in this 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. Commissions NB11473-NC1524, N-1				
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 have inspected the 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. Commissions NB11473-NC1524, N-1	Certificate of Authorization No. N/A			Expiration Date N/A
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and 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 have inspected the 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. Commissions NB11473-NC1524, N-1	e de la composiçõe de la composição de l		and the same of the same and th	المهروبي المعارف المراكب والمعتقد فعلا في المنافع المعارف المراكب المنافع المن
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 Connecticut have inspected the components described in this Owner's Report during the period 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. Commissions NB11473-NC1524, N-1			It Moss	Date October 10 , 20 15
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 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. Commissions NB11473-NC1524, N-1	Owner or Owner's Design	gnee, Title		
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 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. Commissions NB11473-NC1524, N-1				
North Carolina and employed by HSB Global Standards of Connecticut have inspected the components described in this Owner's Report during the period P-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. Commissions NB11473-NC1524, N-1	I the undersigned holding a valid commission			
have inspected the components described in this Owner's Report during the period 1-18-15 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. Commissions NB11473-NC1524, N-1	and the second control of the contro			
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. Commissions NB11473-NC1524, N-1				
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. Section XI. Commissions NB11473-NC1524, N-1	A Same of the second second	the first property of the contract of the cont	-	
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. [Swan Drowe L.	manager described in this Owner's Percetting	and state t	that to the best of my knowledge and belief	ef, the Owner has performed examinations and taken corrective
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. Swan Commissions NB11473-NC1524, N-1	measures described in this Owner's Report in a	coordance with the	requirements of the ASME Code, Section	II AI.
IF Swan Commissions NB11473-NC1524, N-1	By signing this certificate neither the Inspector	nor his employer r	makes any warranty, expressed or implied,	, concerning the examinations and corrective measures described
JF Swan Propriet Juan Commissions NB11473-NC1524, N-1	in this Owner's Report. Furthermore, neither the	he Inspector nor his	s employer shall be liable in any manner for	or any personal injury or property damage or a loss of any kind
Continuesions	ansing from Gronnected with this inspection.	//		
Continuissions	JF Swan Jarone t. Mrs)a_	Commissions NB11473-	-NC1524, N-1
Date 10-13, 2015		<u> </u>		
Date		an ng ng		
	Date $\sqrt{ / \mathcal{O} - / \mathcal{S}}$,	20/>		

1. Owner <u>Duke</u>	Energy Carolinas, LLC			— Date 9/29/2015			
526 <u>S</u>	South Church Street, Charlotte, No Address	- Sheet $1 of 2$	Sheet $\boxed{1}$ of $\boxed{2}$				
2. Plant	McGuire Nuclear Station Name	Unit 2					
	12700 Hagers Ferry Road, Hu	intersville, NC 28078		2178657-01		ris la come concentración secundo su transverso, en en en pues, que destrutor con come mestro secundo como com	
	Address			Work Order # (or Repair/I	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, LLC</u> Name	· · · · · · · · · · · · · · · · · · ·		Type Code Symbol Sta	5.7/		
	526 South Church Street, Ch	arlotte NC 28201-1006		Authorization	personne	Company of the Compan	
	Address	anotto, 110 20201 1000		Expiration D	ate: N/	A	
4. Identification of Sys	ntem NV - Chemical and Volume	e Control		anne manualis (1864). Ma 1864 Maria Maria (1864) anns aireann aghlann an 1864 (1864) (1864) (1864) ann ann		errollering of the second seco	and the second
	struction Code ASME III	***************************************	19 <u>71</u> Edi	tion, Summer and Winter	Add	enda, N/A	Code Case
	tion of Section XI used for Repair	/Replacement Activity	2007 Edition with the	2008 Addenda			
(c) Applicable Sect	tion XI Code Case(s) N/A						
6. Identification of Con	mponents				_		
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	<u>Yes</u>
2MCR-NV-4098	Duke Energy	39533	N/A	N/A	N/A	Installed	Yes
					4	and the second s	
And the second s							
7. Description of Work	Replaced Component	/Part/Appurtenance					
Additional Description	n Replaced snubbers o	n hanger 2MCR-NV-40	98				***************************************
8. Tests Conducted: oF Description (Opt	£. ************************************	Nominal Operation	Pressure Exer	mpt 🔽 Other 🗌 Pressu	ıre	PSI Test Temp).
- ` 1							

9. Remarks (Should Include the Following Information Component Line Size: 2 in 1		Sheet 2 of 2
· · · · · · · · · · · · · · · · · · ·	nominal) System Class: ASME Class	1
Weld Isometric Drawing No(s).: N/A Flow Diagram No(s).:	NOTE 0554 01 00	
Support/Restraint Sketch/Drawing No(s).:	MCFD-2554-01.02	
- ''	2MCR-NV-4098 , EC No.) if not included elsewhere on NIS-2 Form:	
Other Applicable information (e.g., w.o. No	., EC No.) If not included elsewhere on Ni5-2 Form.	
<u> </u>	Applicable Manufacturer's Data Reports to be	attached
	CERTIFICATE OF COMPLIA	NCE
I certify that the statements made in the report a	e correct and that this conforms to the requirements of	of the ASME Code, Section XI.
Type Code Symbol Stamp N/A		
Certificate of Authorization No. No.		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		Date September 29, 20 15
Owner or Owner's Design	.ce, the	
<u> </u>	CERTIFICATE OF INSERVICE INS	SPECTION
I, the undersigned, holding a valid commission i	ssued by the National Board of Boiler and Pressure V	
North Carolina	and employed by HSB Global Stan	of
Connecticut		cribed in this Owner's Report during the period
9-1-15 to 10-1-1	, and state that to the best of my knowledge an	d belief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in ac	cordance with the requirements of the ASME Code,	Section XI.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	or his employer makes any warranty, expressed or in Enspector nor his employer shall be liable in any ma	inplied, concerning the examinations and corrective measures described anner for any personal injury or property damage or a loss of any kind
JF Swan crove F. Liva	Commissions NB	11473-NC1524, N-1
Inspector's Signature		ovince, and Endorsements
Date		

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

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/8/2015 526 South Church Street, Charlotte, NC, 28201 of 2 Sheet Address 2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2178658-01 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: Name Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 4. Identification of System NV - Chimical 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Yes 61224-30 N/A N/A N/A Duke Energy Removed 2MCR-NV-4366 Duke Energy 39534 N/A N/A Yes N/A Installed 2MCR-NV-4366 Duke Energy 61244-121 N/A N/A Yes Yes N/A Removed 2MCR-NV-4366 Yes Duke Energy 39540 N/A N/A N/A Installed 2MCR-NV-4366 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. Description (Optional):

9. Remarks (Should Include the Following Information)	ation, as Applicable):	Sheet 2 c	of <u>2</u>
	ominal) 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:		
y - N This is the second of the Control of the Cont		THE PARTY OF THE P	
	Applicable Manufacturer's Data Reports to be attach	ned	
	CERTIFICATE OF COMPLIANCE	E	
I certify that the statements made in the report are	correct and that this conforms to the requirements of the	e ASME Code, Section XI.	
Type Code Symbol Stamp N/A			The state of the s
:			Normania no
Certificate of Authorization No. N/A		Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical S	pecialist TA Hay	Date October 8	2015
Owner or Owner's Designed			_,
I	***************************************		
	CERTIFICATE OF INSERVICE INSPE	CTION	•
I, the undersigned, holding a valid commission iss	sued by the National Board of Boiler and Pressure Vesse	el Inspectors and the State or Province of	
North Carolina	and employed by HSB Global Standard	ls	of
Connecticut	•	ed in this Owner's Report during the period	'
9-1-15 10/0-12-15		lief, the Owner has performed examinations and taken co	rrective
measures described in this Owner's Report in acco	ordance with the requirements of the ASME Code, Secti	ion XI.	
By signing this certificate neither the Inspector no	or his employer makes any warranty, expressed or implie	ed, concerning the examinations and corrective measures	described
in this Owner's Report. Furthermore, neither the		r for any personal injury or property damage or a loss of	
arising from or connected with this inspection.			
JF Swan propel - Swan	Commissions NB1147	/3-NC1524. N-1	
Inspector's Signature	National Board, State, Province		
	- 7 - - - - - - - 		
Date / 0 ~ / 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 10/11/2015 526 South Church Street, Charlotte, NC, 28201 of 2Sheet 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: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 4. Identification of System KC - Component Cooling 1971 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Installed Component (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer **Duke Energy** Yes N/A 78 N/A 1982 KC system Corrected 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced bolting material in flange between valves 2KC235 & 2KC424. Nominal Operation Pressure Exempt 8. Tests Conducted: Hydrostatic Pneumatic Other [PSI Pressure : Test Temp. _ Description (Optional): Test performed per procedure MP/0/A/7700/045.

9. Remarks (Should Include the Following Inform			Sheet	2 of 2
Component Line Size: 8 in. ((nominal) System	Class: ASME Class 3	e de la companya del companya de la companya del companya de la co	
Weld Isometric Drawing No(s).: N/A				
Flow Diagram No(s).:	MCFD-2573-03.01			<u> </u>
Support/Restraint Sketch/Drawing No(s).:	N/A	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Other Applicable Information (e.g., W.O. No		where on NIS-2 Form:	· · · · · · · · · · · · · · · · · · ·	
and the second s				
	Applicable Manu	ufacturer's Data Reports to be attached		
		CATE OF COMPLIANCE		
I certify that the statements made in the report a	re correct and that this conform	is 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 Owner or Owner's Design		Tallross	Date October 11	, 20 15
J a 				
	CERTIFICATE	OF INSERVICE INSPECTION		
I, the undersigned, holding a valid commission i	issued by the National Board of	f Boiler and Pressure Vessel Inspecto	ors and the State or Province of	
North Carolina	and employed	d by HSB Global Standards	··	of
Connecticut		ed the components described in this	Owner's Report during the period	
9-19-15 to 10-13- measures described in this Owner's Report in ac	$\frac{15}{1}$, and state that to the bes	st of my knowledge and belief, the O	Owner has performed examinations and to	aken corrective
By signing this certificate neither the Inspector of in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	nor his employer makes any wa e Inspector nor his employer sh	nranty, expressed or implied, concernall be liable in any manner for any p	ming the examinations and corrective me personal injury or property damage or a	easures described loss of any kind
JF Swan Propo I- fur Inspector's Signature	Jan	Commissions NB11473-NC152 National Board, State, Province, and Endors		<u> </u>
Date $\frac{\sqrt{3}}{\sqrt{3}}$, 2	025			

1. Owner _	Duke Er	nergy Carolinas, LLC			— Date 10/8/2015				
•	526 South Church Street, Charlotte, NC, 28201 Address				— Sheet 1 of	Sheet $\boxed{1}$ of $\boxed{2}$			
2. Plant		McGuire Nuclear Station Name			Unit 2				
		12700 Hagers Ferry Road,	Huntersville, NC 28078		2184871-16	_	_		
		Addres	ss		Work Order #	(or Repair/Rep	lacement (Organization P.O. No., Jo	b No., etc.)
3. Work Performed by		Duke Energy Carolinas, L Name	Type Code Sy	Type Code Symbol Stamp: N/A					
		526 South Church Street (Charlatta NC 28201 1006		Autho	orization No	E	material section and address with the description of the section of a section. If we have	
		526 South Church Street, Charlotte, NC 28201-1006 Address			Exp	Expiration Date: N/A			
4. Identificat	tion of Syste	m CA - Auxiliary Feedwate	er	_		***************************************			***************************************
		ruction Code ASME III n of Section XI used for Rep	pair/Replacement Activity		lition, Summer and W te 2008 Addenda	inter	Adde	enda, N/A	Code Case
(c) Appli	icable Sectio	n XI Code Case(s) N/A			Andrew Control of the				
6. Identificat	ion of Comp	onents							
Nam Comp		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	1	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	<u>Installed</u>	Yes
\$ 5 00 00 00 00 00 00 00 00 00 00 00 00 0						1			
3	ne yagi i danayahagi na masani yan	The state of the s	Commence of the commence of th		***************************************				
Section 10 to the section of the				1					
7. Description	on of Work	Replaced Compone	ent/Part/Appurtenance			•			<u> </u>
Additional	Description	Installed hanger 2	MCA-CA-5621 per EC10	1081.					
8. Tests Con	iducted: H	ydrostatic Pneumatic	Nominal Operatio	n Pressure Ex	empt Other	Pressure		PSI Test Ten	ıp
^o F Descri	iption (Optic	onal): L		 				-	

Remarks (Should Include the Following Information)	mation, as Applicable):			Sheet 2	of 2
·	(nominal) System Cl	ass: ASME Class 3			
Weld Isometric Drawing No(s).: N/A	AND THE REAL PROPERTY OF THE REAL PROPERTY OF THE PROPERTY OF		ADMINISTRAÇÃO DE CONTRAÇÃO DE CO	1, MOCENTE PAR TOTAL (1970) (1	dalifu iliki sa sharabadi ki dalaa ga kugaba qaara a sagaa qagaanaga ay aadaana kuga
Flow Diagram No(s).:	MCFD-2592-01.00	air duainn 1800, i 1807 airinn rann i 1806 i 1818 (1818) i 18 , 1807 (1818) i 1807 (1818) ann aig air agus airinn i 1818 (1818)	entralismente (1998) de la maria de la	MENTAL AMERICAN CONTRACTOR AND	CONTROL DES MANAGEMENTS ANTONOMISMO ANTONOMISMO CONTROL SANTONOMISMO CONTROL SANTONOMISMO CONTROL SANTONOMISMO
Support/Restraint Sketch/Drawing No(s).:	2MCA-CA-5621		AND THE RESIDENCE OF THE WORLD BY SERVICE AND ADDRESS OF THE PROPERTY OF THE P		
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhe	ere on NIS-2 Form:	EC101081		
The state of the s	Applicable Manufact	turer's Data Reports to be attac	ched		
	CERTIFICA	TE OF COMPLIANC	E		
I certify that the statements made in the report a				XI.	
T C. 1. C. 1. I.G.	salet (man, richter-verset in hall deine der der der der der der der der der de				
Type Code Symbol Stamp N/A					eren von
Certificate of Authorization No. N/A				Expiration Date N/A	
Signed FL Grass, Quality Assurance Technical	Specialist	ASV.		Date October 8	, 20 15
Owner or Owner's Design		- CVI I MANY	~	Date State	, 20:13
		·			
	CERTIFICATE OF	INSERVICE INSPE	CTION		
I, the undersigned, holding a valid commission i				ate or Province of	need 1 Anna Colonia Co
North Carolina	and employed by	HSB Global Standard	<u>ds</u>	·	of
Connecticut			ed in this Owner's Repo		
3-30-15 to 10-13-	, and state that to the best of	f my knowledge and be	lief, the Owner has perf	ormed examinations and ta	ken corrective
measures described in this Owner's Report in ac	ccordance with the requirements of	f the ASME Code, Sect	tion XI.		
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither tharising from a connected with this inspection	e Inspector nor his employer shall	nty, expressed or impli be liable in any manne	ed, concerning the examer for any personal injury	ninations and corrective me or property damage or a lo	asures described oss of any kind
JF Swan Prome ! Swa	au_	Commissions NB1147	73-NC1524, N-1		
Inspector's Signature		National Board, State, Province			
Date /0-/3, 2	10 75				

1. Owner <u>Duke</u>	Energy Carolinas, LLC			— Date 10/7/2015				
526_	South Church Street, Charlotte, N Address	NC, 28201		- Sheet 1 of 2				
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road, H	Juntersville, NC 28078		2184871-32	and the state of t		1	
	Address			Work Order # (or Repair	/Replacement	Organization P.O. No., Jo	b No., etc.)	
3. Work Performed by	Duke Energy Carolinas, LL Name	<u>C</u>		·- ·	Type Code Symbol Stamp: N/A			
	526 South Church Street, C	harlotte NC 28201-1006	5	Authorization	· ····			
	Address			Expiration 1	Date: N/	A		
4. Identification of Sy	stem RN - Nuclear Service Wat	er						
5. (a) Applicable Co.	nstruction Code ASME III		19 71 Ed	lition, Summer and Winter	Add	lenda, N/A	Code Case	
(b) Applicable Ed	ition of Section XI used for Repa	ir/Replacement Activity	2007 Edition with th	e 2008 Addenda_	~~~	and the second s		
(c) Applicable Sec	ction XI Code Case(s) N/A					, control of		
6. Identification of Co	omponents					· 	· 	
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	
The state of the s						2000 30 d d 30 d d		
Annual of the property of the major transfer and the property of the property			4			over		
						T some		
5								
The second secon						- Commonwell		
7. Description of Wor	rk Add New Compone	nt/Part/Appurtenance/W	eld					
Additional Descripti	ion Added hanger 2M0	CA-RN-3416 per EC101	081.					
8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Operation	n Pressure Ex	empt 🗹 Other 🗌 Press	sure	PSI Test Tem	np.	
^o F Description (O _I	otional):					·		

9. Remarks (Should Include the Following Information of the Following Info	mation, as Applicable):		Sheet $\frac{2}{}$ of $\frac{2}{}$
	(nominal) System Class	: ASME Class 3	
Weld Isometric Drawing No(s).: N/A			
Flow Diagram No(s).:	MCFD-2574-03.00		TO DE SE PROPERTY OF THE PROPE
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	r's Data Reports to be attached	
	CERTIFICATE	OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to th	ne requirements of the ASME Code, Sect	ion XI.
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist 7	7 Have	Date October 7 , 20 15
Owner or Owner's Design			, 20
<u></u>			
		NSERVICE INSPECTION	
I, the undersigned, holding a valid commission i	ssued by the National Board of Boile	er and Pressure Vessel Inspectors and the	State or Province of
North Carolina	and employed by $\stackrel{ ext{P}}{=}$	ISB Global Standards	of
Connecticut	money information	components described in this Owner's R	
measures described in this Owner's Report in ac	, and state that to the best of m	y knowledge and belief, the Owner has p	performed examinations and taken corrective
inducates described in and 5 whor 5 respect in ac	ordanoo waa alo roquiomones or in	original code, poblish rii.	
By signing this certificate neither the Inspector	nor his employer makes any warranty	y, expressed or implied, concerning the expressed or implied, concerning the	xaminations and corrective measures described
in this Owner's Report. Furthermore, neither th arising from or connected with this inspection.	e inspector nor his employer shall be	nable in any manner for any personal in	jury or property damage or a loss of any kind
IF Swan ferome T. A		ommissions NB11473-NC1524, N-1	
Inspector's Signature	Natio	onal Board, State, Province, and Endorsements	
Date	0 25		

1. Owner _	Owner Duke Energy Carolinas, LLC				Date 10/20/2015			
-	526 So	uth Church Street, Charlotte, N Address	C, 28201		- Sheet <u>1</u> of <u>2</u>			
2. Plant		McGuire Nuclear Station			Unit 2			,
		12700 Hagers Ferry Road, Hi	intersville, NC 28078		2184871-33 Work Order # (or Repair/	D amin a arra arra	A Constitution D.O. No.	Int No. 141
3. Work Perf	formed by	Duke Energy Carolinas, LLC Name 526 South Church Street, Ch Address	-	·	Type Code Symbol St Authorization Expiration I	amp: $\frac{N_i}{N_i}$	/A /A	, etc.)
4. Identificati	ion of Syste	m RN - Nuclear Service Water	r		. w	-	· · · -	
5. (a) Applic (b) Applic (c) Applic	cable Const cable Edition cable Section	ruction Code <u>ASME III</u> on of Section XI used for Repair on XI Code Case(s) <u>N/A</u>			tion, Summer and Winter 2008 Addenda	Add	denda, <u>N/A</u>	Code Case
6. Identificat	ion of Comp	onents	T				T	
Nam Comp		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	1 2 May 1970	Duke Energy	N/A	60	N/A	1982	Installed	Yes
2RN448		Crane	D5362	N/A	UTC# 1821019		Installed	Yes
	and a second	An amount of the state of the s	\$ \\ \text{Notine in the control of the contr	* * * * * * * * * * * * * * * * * * *		<u> </u>		
<u> </u>	196 1		A Commence of the commence of	The second of th	The second secon	4		
7. Description Additional I 8. Tests Cond	Description	Add piping and valv	Part/Appurtenance/Wel e 2RN448 per EC10108 Nominal Operation	1. Pressure 🔽 Exer	npt Cother Pressi	ıre <u>88</u>	PSI Test Te	mp. <u>57</u>
^o F Descrip	ption (Option	nal): Test performed per proc	edure MP/0/A/7650/076.					-

9. Remarks (Should Include the Following Information, as Ap	pplicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$	
Component Line Size: 8 in. (nominal)	System Class: ASME Class 3	The second secon	
Weld Isometric Drawing No(s).: MCFI-2RN209			
Flow Diagram No(s).: MCFD-257	4-03.00		
Support/Restraint Sketch/Drawing No(s).: N/A			
Other Applicable Information (e.g., W.O. No., EC No.) if	Restraint Sketch/Drawing No(s).: N/A pplicable 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 It the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Symbol Stamp N/A Of Authorization No. N/A Expiration Date N/A Grass, Quality Assurance Technical Specialist Owner or Owner's Designee, Title		
	Applicable Manufacturer's Data Reports to be attached		
	CERTIFICATE OF COMPLIANCE		
I certify that the statements made in the report are correct and	d that this conforms to the requirements of the ASME	E Code, Section XI.	
Type Code Symbol Stamp N/A	and a second of the second of		
Type Good 2 yands 2 map NA			
Contificate of Authorization No. N/A		Expiration Date N/A	
Certificate of Authorization Inc.		Expitation Date	
Signed FL Grass, Quality Assurance Technical Specialist	FX Man	Date October 20 , 20 15	
	CERTIFICATE OF INSERVICE INSPECTION		
I, the undersigned, holding a valid commission issued by the		ctors and the State or Province of	
North Carolina	and employed by HSB Global Standards	of	
Connecticut	have inspected the components described in this	s Owner's Report during the period	
		Owner has performed examinations and taken corrective	
measures described in this Owner's Report in accordance wi	th the requirements of the ASME Code, Section Al.		
By signing this certificate neither the Inspector nor his emplo			
in this Owner's Report. Furthermore, neither the Inspector n	or 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 / Provide the	Commissions NB11473-NC15	574 N-1	
Inspector's Signature	National Board, State, Province, and Endo		
Date / / O - A/ , 20/5			

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 cer	tified by CRANE !	Nuclear, inc., 880 Reminato	n Boulevard, Bolingbrook, IL. 6044	· •
			(num	ne and address of N Certificate Holder)	
2.	Manufactured for	Duke Energy Corp	oration, PO Box 1006, Char	riotte, NC 28201-1015 e and eddress of purchaser)	
3.	Location of installation	McGuire Nucle	ear Station, 13225 Hagers F	Ferry Rd. HWY 73, Huntersville, N (name and address)	C 28078-8985
4.	Model No., Series No.,	, or Type <u>5</u>	341WE Draw	ving <u>CC03981</u> Rev.	C CRN N/A
5.	ASME Code, Section		1998 (edition)	2000 3 (addenda (class)	N/A (Code Case no.)
6.	Pump or valve	Swing Check Va	alve Nominat Inlet si	ze 8 Outlet size	8 (30.)
7.	Material:	•			
	(a) valve Body	SA351 CF8M	Bannet SA351 CF8M	Disk SA351 CF8M	SA193 BBM CL 2 Boiling SA194 BM
	(b) pump Casting		Cover	Boiting	
	(a) Cert. Holder's	(b) Nari Board	(c) Body/Casing Serial	(d) BonneVCover Serial	(e) Disk Serial
	Serial No.	No.	No.	No.	No.
	D5361 D5362	N/A N/A	D5365 / D5368 /	D5373 / D5374 /	D5377 / D5378 /
		180			55570
				· · · · · · · · · · · · · · · · · · ·	

				- / -	181
					////
	·				9.22-1:
				-	
		<i></i>			
····					
				-	

This form (E00037) may be obtained from the Order Dept. ASME, 22 Law Orive, Box 2300, Fairfield, NJ 97007-2300.

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

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

			Cer	tificate Holder's Serial No	D536	through 05362		
8	Design conditions	135 /	pši	150 / °F or val	ive pressure class			(1)
9.	Cold working pressure	275		psi at 100°F				
10.	Hydrostatic test	425 /	_ psi.	Olsk differential test pressu	ire <u>3</u>	05	psi	
11.	Remarks: PO No. OP20357, PO Its CNI SO No. 28431-01 Hinge Pin Plugs: ASME Bolling: Studs, Heat # 19	SA182 F316, Heat #	56457	Cover Plug: ASME SA182 F	F318, Heat # 56457	, Code ACT		
				TIFICATION OF DESIGN				
1	n Specifications certified I		<u>в М.</u> На		NC Reg. no.	20159		
Desig	n Report certified by	N	/A	P.E. State	N/A Reg. no.	N/A		
of the	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 Car	rtificate of Authorization No August 30, 2008			99 Expires (uclear, inc. Signed gate Holder)	September 24, 20	Sr. QA Engineer	•	
L		······································						
			CERTI	FICATE OF INSPECTION				
State of and s	or Province of II. Hartford, CT ha	id commission issue Incis and e ve inspected the pu knowledge and bell	ed by th mploye mp, or v	e National Board of Boiler and	HSBCT Report on <u>Au</u>	gust 30, 2008	ith the	
comp	onent described in this Dai	a Report. Furtherm	ore, nei	loyer makes any warranty, exp ther the inspector nor his emp urising from or connected with	doyer shall be liable			
Date	08/30/08 Signed	Authorized Nuclear (In Fred Ouydar	bectory	Commissions [[Nat'l Bd. gr	IL 1005 nd. endorsements) and sta	itis or prov. and no.)		

(1) For manually operated valves only.

TIBIA81

Facility : MC ISSUE TICKET Warehouse : 2

Mtl Rqst : 03371574 89914400 Reference : WO 02184871 06

Responsible: ROBINSON ELIZABETH

Department: 23438 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

Process Project Activity-ID DUK MC DK MC02 MODNENV 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

VALVE, CHECK, SWING, 8", 1MV-559, ASME B16.34 CLAS S 150, BW, SS, ASME SA351, CF8M, SS

UTC Nbr: 0001821019 Trace 1: M SN#D5362

Trace 2:

Safety Class(QA Condition): 1

MAN. CRANT
Year Built ->

NB #->

Serial Number # D5.

Issued By : BARBEE

Issue Date: 03/05/2015 Time: 08:58

Received By: HERMAN

1. Owner <u>Duke E</u>	wner Duke Energy Carolinas, LLC				Date 10/15/2015			
526_So	outh Church Street, Charlotte, Address	NC, 28201		— Sheet <u>1</u> of <u>2</u>	<u>:</u>			
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road,	Huntersville, NC 28078		2184871-41			· · · · · · · · · · · · · · · · · · ·	
	Addres	S		Work Order # (or Repa	air/Replacemen	t Organization P.O. No., Jo	ob No., etc.)	
3. Work Performed by	Duke Energy Carolinas, L Name	LC		Type Code Symbol	Type Code Symbol Stamp: N/A			
	526 South Church Street,	Authorizati			<u> </u>			
	Addre			Expiration	Expiration Date: N/A		<u>.</u>	
4. Identification of Syste	em RN - Nuclear Service W	ater	A THE STANFORM PARTY OF A PARTY OF A SA	Section (1997) and the second sectio				
	truction Code ASME III on of Section XI used for Rep	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Add	denda, <u>N/A</u>	Code Case	
(c) Applicable Section	on XI Code Case(s) N/A	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			
6. Identification of Com	ponents			•				
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	Installed	Yes	
	And the second s		The second of th	and the first transfer to the second of the	e or a series			
	g E	the contract of the contract o	Maria na maria na manaka manaka pinya hasan na minin yanga akka ni ma	and the second s				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second of th	To be the second of the second	The second secon				
<u> </u>	The state of the s	A set of the second sec	A CONTRACTOR OF THE PROPERTY O	The state of the s		,		
	* * * * * * * * * * * * * * * * * * * *	to the second second second second second	and the same of the same of the same	1. St. 7. y . 1. St. office many and a many appropriate and a second second		<u> </u>		
7. Description of Work	Replaced Compone	ent/Part/Appurtenance						
Additional Description	Installed hanger 2	MCA-RN-3415 per EC10)1081.	ية بياد في مرمد الميارية المواقع في الم	214.00		. Sea car earlier	
8. Tests Conducted: H oF Description (Option	The second second second second second second	Nominal Operatio	on Pressure E	xempt ♥ Other Pre	ssure	PSI Test Ten	pp. :	

9. Remarks (Should Include the Following Information Component Line Size: 8	· · · · · · · · · · · · · · · · · · ·	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Weld Isometric Drawing No(s).: N/A	nominal) System Class: ASME Class 3	
Flow Diagram No(s).:	MCFD-2574-03.00	and the second s
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 ar	e correct and that this conforms to the requirements of the ASME Code, Section 2	XI.
Type Code Symbol Stamp N/A	and the same of th	
TVA		
Certificate of Authorization No. N/A	7 - A - 7 - A - 7 - A - A - 7	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical		Date October 15 , 20 15
Owner or Owner's Design	ee, Title	
	CERTIFICATE OF INCEDIFICE INCRECTION	
I the undersigned holding a valid commission i	CERTIFICATE OF INSERVICE INSPECTION ssued by the National Board of Boiler and Pressure Vessel Inspectors and the State	e or Province of
North Carolina	and employed by HSB Global Standards	of
Connecticut	have inspected the components described in this Owner's Repor	
7-6-15 to 10-15-1	, and state that to the best of my knowledge and belief, the Owner has perfo	~ •
measures described in this Owner's Report in ac	cordance with the requirements of the ASME Code, Section XI.	Mark Chammanous and Junear South
Ry signing this certificate neither the Inspector t	or his employer makes any warranty, expressed or implied, concerning the exami	nations and corrective measures described
in this Owner's Report. Furthermore, neither the	E Inspector nor his employer shall be liable in any manner for any personal injury	
arising from or connected with this inspection.		
JF Swan / Orone Fluor	Commissions NB11473-NC1524, N-1	
Inspector's Signature	National Board, State, Province, and Endorsements	
() 100 000 000 000 000 000 000 000	· to	
Date $\frac{\sqrt{\sqrt{5}}}{\sqrt{5}}$, 20	1/5	

1. Owner <u>Duk</u>	e Energy Carolinas, LLC	Date 10/8/2015	**************************************					
526	South Church Street, Charlotte, Address	NC, 28201		Sheet 1 of 2				
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road, I	Huntersville, NC 28078		2185059-25	····			
	Address	3		Work Order # (or Repa	ir/Replacement	t Organization P.O. No., Jo	b No., etc.)	
3. Work Performed b	y <u>Duke Energy Carolinas, LI</u> Name	<u>.C</u>		Type Code Symbol	Type Code Symbol Stamp: N/A			
	526 South Church Street, C	Therlatte NIC 20201 100	16	Authorization	*******	entrope competition decisioning (gg/milentope crisis from the trape of upon top my type is the filter of	V no Ash. As commence and	
	Addres	Expiration	Date: N	<u>'A</u>				
4. Identification of Sy	ystem RN - Nuclear Service Wa	ter						
	onstruction Code ASME III lition of Section XI used for Rep.	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Ado	denda, N/A	Code Case	
(c) Applicable Se	ction XI Code Case(s) N/A							
6. Identification of C	omponents		*					
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	
A AND THE RESIDENCE OF THE STREET OF T						A Andrews		
						Andrews of the Control of the Contro		
						t excepting		
A STATE OF THE STA				Anthon and provide in contact, the collect collections in principles required contact is an extrementary through you can be contacted as a contact in the collection of the co	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A common to the		
7. Description of Wo	rk Replaced Compone	nt/Part/Appurtenance						
Additional Descript	ion Installed hanger 21	MCA-RN-3417 per EC1	01081					
8. Tests Conducted:		Nominal Operation	on Pressure E	kempt 🗹 Other 🗆 Pres	ssure	PSI Test Tem	p	
^o F Description (O	ptional):						and the second	

9. Remarks (Should Include the Following Inform	nation, as Applicable):		Sheet 2 of 2
Component Line Size: 8 in. (1	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 o	on NIS-2 Form: EC101081	AND THE PROPERTY OF THE PROPER
	NE CONTROL DE CONTROL AND		The second secon
	Applicable Manufacturer's	's Data Reports to be attached	
		OF COMPLIANCE	
I certify that the statements made in the report ar	e correct and that this conforms to the	e requirements of the ASME Code, Section 2	XI.
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A	The state of the s		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist Jal	hou	Date October 8 , 20 15
Owner or Owner's Design			
		SERVICE INSPECTION	
I, the undersigned, holding a valid commission is	ssued by the National Board of Boiler	r and Pressure Vessel Inspectors and the State	
North Carolina		ISB Global Standards	of
Connecticut		components described in this Owner's Report	rt during the period
8-25-15 to 10-13-1	, and state that to the cost of the	y knowledge and belief, the Owner has perfo	ormed examinations and taken corrective
measures described in this Owner's Report in ac	cordance with the requirements of the	ASME Code, Section XI.	
By signing this certificate neither the Inspector n	nor his employer makes any warranty,	expressed or implied, concerning the exami	inations and corrective measures described
in this Owner's Report. Furthermore, neither the			
arising from or connected with this inspection.			
JF Swan erone 1	(.)x _1	mmissions NB11473-NC1524, N-1	
Inspector's Signature		onal Board, State, Province, and Endorsements	
	15		
Date			

1. Owner	vner Duke Energy Carolinas, LLC				— Date 10/7/2015		and the second s		
	526 Son	uth Church Street, Charlotte, No Address	C, 28201		- Sheet 1 of 2				
2. Plant		McGuire Nuclear Station Name			Unit 2				
		12700 Hagers Ferry Road, Hu	intersville, NC 28078		2185059-28				
		Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Job	No., etc.)	
3. Work Per	formed by	Duke Energy Carolinas, LLC Name	·			Type Code Symbol Stamp: N/A			
		526 South Church Street, Ch	arlotte NC 28201-1006		Authorization	g=-00-00 m	The state of the s		
		Address	<u> </u>	-	Expiration D	ate: N/	<u>A</u>		
4. Identifica	tion of Syste	m RN - Nuclear Service Wate	Γ			***************************************		Complete many	
		ruction Code ASME III n of Section XI used for Repair	r/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case	
(c) Appl	licable Sectio	n XI Code Case(s) N/A							
6. Identifica	tion of Comp	onents							
	ne of ponent	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	
S CONTRACTOR OF THE CONTRACTOR							Accessed to the control of the contr		
							- The state of the		
							receiver -		
						Control of the Contro	Software 2. c.		
E. a. the an arms of the resp.	- Miller of a gape and a service representation and a service and a serv	A CONTRACT OF THE PROPERTY OF		And the second s		2	in the second of		
7. Description	on of Work	Replaced Component	/Part/Appurtenance						
Additional	Description	Installed hanger 2M	CA-RN-3418 per EC10	1081.					
	nducted: H	The state of the s	Nominal Operation	n Pressure	mpt 🗹 Other 🗀 Pressi	ure	PSI Test Temp).	
°F Descr	iption (Optic	onal): 📒		·					

9. Remarks (Should Include the Following Infor	mation, as Applicable):			Sheet 2	of [2
Component Line Size: 6 in.	(nominal) System	Class: ASME Class 3			
Weld Isometric Drawing No(s).: N/A	***************************************				
Flow Diagram No(s).:	MCFD-2574-03.00		artuuris Tray võid 9 Nursegus, uutuvassasse suljaku vast uro. Sõidirus ja talettava, neddi 1867–1864 Million Million uut segassessassasta ja kaldi	edyklypiadynydd ferfedion. Ai fyddidd, fefferiol o'i felliwl o'i fellin y charllyn y gyngaeth y gaellyn y charl	
Support/Restraint Sketch/Drawing No(s).:	2MCA-RN-3418		AND THE RESIDENCE OF THE PARTY	arrando manda, andre militario sale eller con ellecturo e de la paragana en de la companya de la companya de l	
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsew	here on NIS-2 Form:	er det er bestelle met kommen med en kommen stelle kommen stelle stelle kommen stelle kommen de bestelle med e De stelle ste		
	Applicable Manuf	acturer's Data Reports to be attache	d		To America
	CERTIFIC	ATE OF COMPLIANCE			<u> </u>
I certify that the statements made in the report a	are correct and that this conforms	to the requirements of the	ASME Code, Section XI.		
Type Code Symbol Stamp N/A					
in i					
Certificate of Authorization No. N/A			Expiration	on Date N/A	And the second s
Signed FL Grass, Quality Assurance Technical	Specialist . 7	A thered	Dat	te Octo0ber 7	20 15
Owner or Owner's Desig		Trasi		<u> </u>	
			· · · · · · · · · · · · · · · · · · ·		
		OF INSERVICE INSPEC			· ·
I, the undersigned, holding a valid commission				nce of	
North Carolina	and employed	by HSB Global Standards			of
Connecticut	have inspecte	d the components described	l in this Owner's Report during th	ne period	
4-7-15 to 18-13-1			ef, the Owner has performed exam	ninations and taker	n corrective
measures described in this Owner's Report in a	ccordance with the requirements	of the ASME Code, Section	n XI.		
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes any wan ne Inspector nor his employer sh	ranty, expressed or implied all be liable in any manner	l, concerning the examinations an for any personal injury or propert	nd corrective measu y damage or a loss	ares described of any kind
JF Swan Jerone F. A		ND11472	NC1524 N 1		
Inspector's Signature	nan	Commissions NB11473 National Board, State, Province,			
	4	, , , -			
Date $10-15$, 2	20 /5				

1. Owner <u>Duke Energy Carolinas, LLC</u>				— Date 10/10/2015		######################################	
4	526 South Church Street, Charlotte, NC, 28201			— Sheet 1 of 2	greenwooder		
2 Dlane	Address			•	_		
2. Plant	McGuire Nuclear Station Name	;		Unit <u>2</u>			
	12700 Hagers Ferry Road.	Huntersville, NC 28078		2185059-51			***************************************
	Addre	SS		Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name			Type Code Symbol				
	526 South Church Street,	Charlotte, NC 28201-1000	5	Authorization	N.T./	and the same of th	
	Addre			Expiration	Date: N/	A	
4. Identification of	System RN - Nuclear Service W	ater					***************************************
5. (a) Applicable	Construction Code ASME III Edition of Section XI used for Rep			dition, Summer and Winter ne 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable	Section XI Code Case(s) N/A						
6. Identification of	f 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>	Yes
An Artificial Control of the Artificial Cont	A PARTA ORNICA DE LA CALLA CAL	The state of the s			**************************************	d _y consideration	
gis on Addition that was not have included upon the big of the control of the con	The second secon			The state of the s		The section of the se	
	100 of the part of 100 (100 (100 (100 (100 (100 (100 (100						1
A second and second an	Contract of the Contract of th					Consumary of the Consum	
And the second s							
7. Description of	Work Replaced Compon	ent/Part/Appurtenance					
Additional Descri	Added piping per	EC101081.					
8. Tests Conducte	d: Hydrostatic Pneumatic	Nominal Operation	on Pressure 🔽 Ex	empt Other Pre	ssure 88	PSI Test Tem	ıp. 57
^o F Description	(Optional): Test performed per p	rocedure MP/0/A/7650/07	<u>6.</u>			the control of the co	

Remarks (Should Include the Following Information)	mation, as Applicable):	Sheet 2 of 2
	(nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2R	N207	
Flow Diagram No(s).:	MCFD-1574-01.01	
Support/Restraint Sketch/Drawing No(s).:	N/A	
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2 Form:	EC101081
{	Applicable Manufacturer's Data Reports to be at	tached
	CERTIFICATE OF COMPLIAN	CE
I certify that the statements made in the report a	re 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 - Follows	Date October 10 20 15
Owner or Owner's Desig		
		
	CERTIFICATE OF INSERVICE INSP	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Ve	
North Carolina	and employed by HSB Global Standa	ards of
Connecticut	have inspected the components descr	ibed in this Owner's Report during the period
8-25-15 to 10-14-1	and state that to the best of my knowledge and	belief, the Owner has performed examinations and taken corrective
	coordance with the requirements of the ASME Code, Se	
		blied, concerning the examinations and corrective measures described ner for any personal injury or property damage or a loss of any kind
JF Swan orome to have	Commissions NB11	473-NC1524, N-1
Inspector's Signature	National Board, State, Provi	
Date 10-14, 2	0 15	

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

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/20/2015 526 South Church Street, Charlotte, NC, 28201 Address 2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2187798-28 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 4. Identification of System RN - Nuclear Service Water 19 71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 Corrected. ASME Code Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Identification Board No. Built Name of Manufacturer **Duke Energy** N/A Yes N/A 1982 Installed RN System 7. Description of Work Add New Component/Part/Appurtenance/Weld Additional Description Added piping per EC107431. Test Temp. <u>73.2</u> Pressure 1.7 Pneumatic . Nominal Operation Pressure Other 8. Tests Conducted: Hydrostatic Exempt Description (Optional): Test per formed per procedure MP/0/A/7650/076.

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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	
Type Gode Symbol Similar IN/A	
N/A	NT/A
Certificate of Authorization No. No.	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	Date October 20 , 20 15
Owner or Owner's Designee, Title	, Date October 20, 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 Sta	ate or Province of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Repo	
nave inspected the components described in this Owner's Repo	
$\frac{6-3-15}{10-20-15}$, and state that to the best of my knowledge and belief, the Owner has performed measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	formed examinations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examination of the Company of th	ninations 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 arising from or connected with this inspection.	y or property damage or a loss of any kind
alising nomice connected with this inspectation.	
JF Swan / grome / hwan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date 10-20 15	
, , , , , , , , , , , , , , , , , , , ,	

1. Owner Duke Energy Carolinas, LLC				— Date 10/13/2015	- Date 10/13/2015				
	526_So	uth Church Street, Charlotte, Address	NC, 28201		— Sheet 1 of 2				
2. Plant		McGuire Nuclear Station			Unit 2	Unit 2			
		12700 Hagers Ferry Road,	Huntersville, NC 28078		2189091-20				
		Addres			Work Order # (or Repai	r/Replacemen	t Organization P.O. No., Jo	ob No., etc.)	
3. Work Per	formed by	Duke Energy Carolinas, L.	LC		Type Code Symbol S	Stamp: N	/A	· ·	
				_	Authorizatio	n No.: N	/A		
		526 South Church Street, C Addres		5	Expiration	Date: N	/A	·	
4. Identificat	tion of Syste	m RN - Nuclear Service Wa	iter			· · · ·			
(b) Appl	licable Editio	ruction Code ASME III on of Section XI used for Rep on XI Code Case(s) N/A		19 <u>71</u> E	dition, Summer and Winter he 2008 Addenda	Add	denda, <u>N/A</u>	Code Case	
6. Identificat	tion of Comp	ponents							
	ne of ponent	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	
	300 a <u>3 0 0 00 00 0</u>			See al. The second and the second an	to a suppose principle. Manage as a suppose to the		-	_	
<u></u>			. 1967 1 - 1972 1 -	1	to A has removed a sequence of the second to the second of		4		
	-		The second secon	The state of the s		A STATE OF THE STA			
						(19)			
7. Description	on of Work	Replaced Compone	ent/Part/Appurtenance						
Additional	Description	Replaced piping p						·	
	nducted: H	ydrostatic Pneumatic onal): Test performed per pr	man a grant and grant and an area and an area		empt Other Pres	sure <u>88</u>	PSI Test Ten	np. <u>56</u>	
^o F Descri	іриоп (Орис	man): <u>rest performed per pr</u>	DOCUME 1111 /0/20/10/10/00/01	<u>v.</u>					

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 8in. (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	
and the second of the second o	
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	
IVA	
N/A	N/A
Certificate of Authorization No. No. Expi	ration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	Date October 13 .20.15
Owner or Owner's Designee, Title	, 20 <u></u>
	······································
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 P	rovince of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during	ng the period
9-14-15 to $10-13-15$, and state that to the best of my knowledge and belief, the Owner has performed	
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 examination	og and corrective mangures described
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or pro-	perty damage or a loss of any kind
arising from or donnected with this inspection.	
The Harmon Francisco Franc	
JF Swan Commissions NB11473-NC1524, N-1 Inspector's Signature National Board, State, Province, and Endorsements	
Individu Boats, Clare, Florince, and Emoliscincins	
Date () () - 13 , 20 15	
	·

1. Owner <u>Duke Er</u>	Owner Duke Energy Carolinas, LLC			- Date 9/18/2015			
526 Son	uth Church Street, Charlotte, NO Address	C, 28201		Sheet $\boxed{1}$ of $\boxed{2}$			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2189481-47	***************************************		*
	Address			Work Order # (or Repair	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol St	- INT/	and comments and an extension of the second and the	
	526 South Church Street, Cha	rlotte, NC 28201-1006		Authorization Expiration I	NT/	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	Account for the control of the contr
4. Identification of Syste	WS - Station Air System - S	tation Air System (High	Pressure)			A STATE OF S	
5. (a) Applicable Constr(b) Applicable Editio	ruction Code ASME III n of Section XI used for Repair	Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Section	n XI Code Case(s) N/A			· · · · · · · · · · · · · · · · · · ·			
6. Identification of Comp	oonents						
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
The control of the co						Super-positive and the	
And it is a second to the second seco		with the second of the second				Linear Control of the	
The state of the s	Table to the control of the control	**************************************				3 grandoso	
7. Description of Work	Other (Describe Belov	<u>v)</u>		El Servermanager especial transport source research and the server source sourc	Annual An	wi.	1
Additional Description	Coped hanger memb	er and reinstalled end ca	p on hanger 2MCA-S-	-VS-500-01C per EC 101081	•		3
8. Tests Conducted: Hy oF Description (Option	g	Nominal Operation	Pressure Exer	mpt Other Press	ure	PSI Test Tem	ıp.

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\boxed{2}$ of $\boxed{2}$
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	Date September 19 , 20 15
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 Sta	ite or Province of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Repo	ort during the period
4-7-15 to 9-19-15, and state that to the best of my knowledge and belief, the Owner has perfect	.
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 exam in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury arising from or connected with this inspection.	
JF Swan Proprie Wan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date	

1. Owner <u>Duke E</u>	. Owner Duke Energy Carolinas, LLC				- Date 10/7/2015			
<u>526 So</u>	uth Church Street, Charlotte, N Address	C, 28201		- Sheet 1 of 2				
2. Plant	McGuire Nuclear Station Name			Unit 2				
	12700 Hagers Ferry Road, Hu	intersville, NC 28078		2189481-59			***************************************	
	Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)	
3. Work Performed by	Duke Energy Carolinas, LLC Name		•	Type Code Symbol St	amp: N/	A	,	
	526 South Church Street, Ch	arlotte, NC 28201-1006		Authorization	*****	A COMPANY TO COMMON TO COMPANY TO THE STORY FROM THE COMPANY TO CO		
	Address			Expiration I	Date: N/	A		
4. Identification of Syste	m CA - Auxiliary Feedwater							
5. (a) Applicable Const (b) Applicable Edition	ruction Code ASME III on of Section XI used for Repair	r/Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	lenda, N/A	Code Case	
(c) Applicable Section	on XI Code Case(s) N/A					ceterior		
6. Identification of Comp	ponents		-					
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	
						Smeans of the state of the stat		
						The state of the s		
The state of the s						The state of the s		
The second control of	Committee and the second secon				San January	p announce to:		
, and control to the control of the	CONTRACTOR OF THE PROPERTY OF				-	The state of the s		
7. Description of Work	Replaced Component	/Part/Appurtenance						
Additional Description	Modified hanger 2M	ICA-CA-5131 per EC10	1081.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
8. Tests Conducted: H	vdrostatic Pneumatic	Nominal Operation	Pressure Eve	mpt Other Press	ure	PSI Test Tem	ın T	

9. Remarks (Should Include the Following Infor		Sheet $\boxed{2}$ of $\boxed{2}$
	(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	o., EC No.) if not included elsewhere on NIS-2 Form: EC10	1081
	Applicable Manufacturer's Data Reports to be attached	
	Application viality and the policy to be attached	·
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the ASI	ME 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 IB Many	Date October 7 , 20 15
Owner or Owner's Desig		, 20 <u></u>
		· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vessel Ins	pectors 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 10-13-1	and state that to the best of my knowledge and belief, t	he Owner has performed examinations and taken corrective
measures described in this Owner's Report in ac	ccordance with the requirements of the ASME Code, Section X	
By signing this certificate neither the Inspector	nor his employer makes any warranty, expressed or implied, co	nncerning the examinations and corrective measures described
in this Owner's Report. Furthermore, neither the	he Lispector nor his employer shall be liable in any manner for a	
arising from or connected with this inspection.		
The Hard F) TD11470.7V	
JF Swan Jrove / ku	Commissions NB11473-NC National Board, State, Province, and E	
inspector s signature	rational Boato, State, 170Vinee, and E	and openion.
Date $10-13$, 2	0/25	

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/10/2015 526 South Church Street, Charlotte, NC. 28201 Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2189481-64 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 N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 Corrected, ASME Code Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Identification Board No. Built Name of Manufacturer Duke Energy N/A 1982 Yes N/A Installed CA system 60 **Duke Energy** N/A N/A 1982 Yes Installed RN system E2648 N/A UTC# 2024483 2013 Yes 2RN162 Crane Installed

7. Description of Work	Add New Component/Pa	art/Appurtenance/Weld						
Additional Description	Replaced piping and ac	lded valve 2RN162 per EC101081.						
3. Tests Conducted: Hydrostatic	Pneumatic	Nominal Operation Pressure	Exempt	Other	Pressure 88	PSI	Test Temp. 57	
PF Description (Optional): Tes	st performed per procedu	re MP/0/A/7650/076.		· · · · · · · · · · · · · · · · · · ·				

9. Remarks (Should Include the Following Information Component Line Size: 8 in (·	Sheet $\underline{2}$ of $\underline{2}$
<u> </u>	nominal) System Class: <u>ASME Class 3</u> A67 & 2RN208	
Flow Diagram No(s).:	MCFD-2592-01.01 & 2574-03.00	
Support/Restraint Sketch/Drawing No(s).:		
	N/A ., EC No.) if not included elsewhere on NIS-2 Form: FC101081	- 1
Onio Applicable Information (e.g., w.o. 140	EC101081	
	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the requirements of the ASME Code, Secti	ion XI.
Type Code Symbol Stamp N/A		المراجع والمتعادي وا
Type code by moor bump M/A		
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical		Date October 10 , 20 15
Owner or Owner's Design	nee, Title	-
I the undersianed helding a valid commission i	CERTIFICATE OF INSERVICE INSPECTION ssued by the National Board of Boiler and Pressure Vessel Inspectors and the	State on Drovince of
North Carolina	and employed by HSB Global Standards	· · · · · · · · · · · · · · · · · · ·
Connecticut	<i>(</i>	of
9 24 15 10 15 15	have inspected the components described in this Owner's Re	•
measures described in this Owner's Report in ac	has p. and state that to the best of my knowledge and belief, the Owner has proordance with the requirements of the ASME Code, Section XI.	erformed examinations and taken corrective
	nor his employer makes any warranty, expressed or implied, concerning the ex e Inspector nor his employer shall be liable in any manner for any personal inj	
JF Swan JONNO F. Sw	Commissions NB11473-NC1524, N-1	
Inspector's Signature	National Board, State, Province, and Endorsements	
Date 18-15 , 20	0/5	

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 ce	ertified by <u>CRA</u>	NE Nuclear, I	nc., 860 Remington (Boulevard, Boling	brook, IL 6044)	<u>-</u>
_				(name an	d address of N Certific	ate Holder)		_
2.	Manufactured fori	Duke Energy Car	olinas, LLC Po		te, NC 28237 (dress of purchaser)			-
3.	Location of installation	n McGuire Nu	clear Station 1	3225 Hagers Ferry F	Rd Hwy 73 Hunte	rsville, NC 2807	8-8985	_
٠, 4,	Model No., Series No	., or Type	5202-WE	Drawing _	CC04304	Rev. F	CRN N/A	-
5.	ASME Code, Section	i III, Division 1:	1998 (edition)	2000 (addenda o		2 (class)	N/A (Code Case no.)	-
6.	Pump or valve	Gate Vah	/e	Nominal inlet size	8"	_ Outlet size	8°	-
7.	Material:							•
	(a) valve Body (b) pump Casting	SA216 WCB N/A	Bonnet Cover	SA216 WCB N/A		51 CF8M N/A	Bolting See Page 2	-
	(a) Cert. Holder's Serial No. E2647	(b) Nat'l Board No. N/A		(c) Body/Casing Serial No. E2649 ✓	(d) Bonnet/Co Serial No. E2655		(e) Disk Serial No. E2660 ✓	
	E2648 /	N/A		E2650 -	E2656		E2659 /	- - -
\neq			$= \pm$	·	+	\		- -
7					<u>.</u>			- - -
/		<u> </u>						- - -
								_ -
								- - -
								-
								- R
						- -		- 1/6/X
								-,X,Xv,X
		· · · · · · · · · · · · · · · · · · ·	$ \pm \equiv $			# =		
			$\pm =$					-10-1-

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 % 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.

FORM NPV-1 (Back) — Pg. 2 of 2

	Certil	ficate Holder's Serial No.	E2647 & E2648				
			,				
8 Design conditions 135 psi	95F	or valve pressure class					
(pressure	(temperature)						
9. Cold working pressure285							
10. Hydrostatic test 450	Disk differential	rest pressure	315				
11. Remarks: Bonnet Stud - 14 pcs./valve SA							
Bonnet Stud Nut - 28 pcs./valve SA194 Gr. 2 By-Pass Valve S/N - 111024-20 & 111024-19		AFO					
By-Pass Piping - SA106 Gr. B, Heat# 51158;							
By-Pass Elbow - SA105, Heat# 78801 Duke PO# 0016772 Rev. 001, PO Item# 000	1 CNI SO# 42061-01						
Duke FOW UD16/72 Rev. 001, FO Itelliw 000	1, CN 50# 42001-01						
(CERTIFICATION OF DES	GN					
Design Specifications certified byJam	es M. Lamb, Jr.	P.E. State NC F	Reg. na. <u>6005</u>				
Design Report certified by	N/A	P.E. State N/A F	Reg. no. <u>N/A</u>				
		· · · · · · · · · · · · · · · · · · ·					
CI	ERTIFICATE OF COMPLI	ANCE					
We certify that the statements made in this report a of the ASME Code, Section III, Division 1.	re correct and that this pur	mp or valve conforms to the	e rules for construction				
N Certificate of Authorization No.	N-2899	Expires September 9,	. 2014				
	NE Nuclear, Inc. Cartificate Holder)	Signed	d representative)				
<u> </u>	Ł						
j	ERTIFICATE OF INSPEC	TION					
I, the undersigned, holding a valid commission issu HSB CT	ed by the National Board of	of Boiler and Pressure Ves Hartford, (
have inspected the pump, or valve, described in thi		September 30,					
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	Commissions	NB11557	7 ABIN				
(Authorized Nuclear in Todd Warn	nspector)	(National Board Number					

(07/11)

2024482/3

1. Owner <u>Duke Energy Carolinas, LLC</u>				Date 10/20/2015	Date 10/20/2015			
526	South Church Street, Charlotte, Address	NC, 28201		— Sheet <u>1</u> of <u>2</u>				
2. Plant	McGuire Nuclear Station Name				Unit 2			
	12700 Hagers Ferry Road,			2189481-65	oir/Ponlagoment	Organization P.O. No., J	ah Na ata)	
3. Work Performed by	Type Code Symbol Authorizati	Type Code Symbol Stamp: N/A Authorization No.: N/A Expiration Date: N/A						
4. Identification of Sy	Addres			,	Tradic.			
(b) Applicable Edi	nstruction Code ASME III ition of Section XI used for Rep	air/Replacement Activity		dition, Summer and Winter he 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case	
(c) Applicable Sec 6. Identification of Co	etion XI Code Case(s) N/A		· · · · · · · · · · · · · · · · · · ·	···				
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	
RN System	Duke Energy	N/A	60	N/A	1982	Installed	Yes	
		Superior Committee Committ	Anna de la lacación de lacación de lacación de la lacació	Annual Property and Annual State of the Control of	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
	A CONTRACTOR OF THE STATE OF TH	en e	en i samme				 	
		The state of the s	The state of the s		The second second			
7. Description of Wor Additional Description		ent/Part/Appurtenance/W EC101081.	<u>eld</u>			· · · · · · · · · · · · · · · · · · ·		
8. Tests Conducted: °F Description (Op.	Hydrostatic Pneumatic ritional): Test performed per pro-	and the state of t		cempt Other Pre	essure 86	PSI	np. <u>72</u>	

9. Remarks (Should Include the Following Inform	nation, as Applicable):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
· · · · · · · · · · · · · · · · · · ·	•	lass: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2CA	A7, 2CA28, 2CA67, & 2RN106		
Flow Diagram No(s).:	MCFD-2574-03.00 & 2592.01.0	1	
Support/Restraint Sketch/Drawing No(s).:	.N/A		
Other Applicable Information (e.g., W.O. No	., EC No.) if not included elsewh	ere on NIS-2 Form: EC101081	
	end to the second of the secon	and the second s	
	Applicable Manufa	turer's Data Reports to be attached	
-	CERTIFICA	TE OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms	o the requirements of the ASME Code, Section	n XI.
Type Code Symbol Stamp N/A		en grande i den de	
Type Code Symbol Stamp N/A			
	*** * · · · · · · · · · · · · · · · · ·	. And the second of the second	N/A
Certificate of Authorization No. NA	 		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist 4	Maria	Date October 20 , 20 15
Owner or Owner's Design		9-16-1	, 20_15
			
	CERTIFICATE O	F INSERVICE INSPECTION	
I, the undersigned, holding a valid commission i			tate or Province of
North Carolina	and employed 1	HSB Global Standards	of
Connecticut	,	the components described in this Owner's Rep	oort during the period
2-25-15 6/0-20.		of my knowledge and belief, the Owner has pe	
measures described in this Owner's Report in ac	cordance with the requirements	of the ASME Code, Section XI.	
By signing this certificate neither the Inspector r	noù hia omulossar malesa ons serve		
in this Owner's Report. Furthermore, neither th	e-Inspector nor his employer shall	l be liable in any manner for any personal inju	ry or property damage or a loss of any kind
arising from or connected with this inspection		71	
I The second of the	terms of the second second second		• • • • • • • • • • • • • • • • • • • •
JF Swan Corona Inspector's Signature		Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements	<u>_</u> ,
Inspector's Signature		readonal Doard, State, Flovince, and Endorsements	
Date / /0 - 20 20	075		
, =	- 		

1. Owner Duke Energy Carolinas, LLC			— Date 10/7/2015	Date 10/7/2015					
	526 So	uth Church Street, Charlotte, Address	NC, 28201		- Sheet $\boxed{1}$ of $\boxed{2}$	proper describe			
2. Plant	McGuire Nuclear Station Name				Unit <u>2</u>	Unit 2			
	12700 Hagers Ferry Road, Huntersville, NC 28078				2189481-75	2189481-75			
		Addre			Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	b No., etc.)	
3. Work Per	formed by	<u>Duke Energy Carolinas, L</u> 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. Identifica	tion of Syste	m CA - Auxiliary Feedwate	er	***************************************					
(b) Appl	licable Editio	ruction Code ASME III on of Section XI used for Report XI Code Case(s) N/A	pair/Replacement Activity		ition, Summer and Winter	Add	lenda, N/A	Code Case	
		., -	<u> </u>						
6. Identifica	tion of Comp	onents				Т	Corrected.	ASME Code	
	ne of ponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Stamped (Yes or No)	
2MCA-CA	-5204	Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes	
E S S									
S a new processors and were a second	and the second						S. Demonstration of the second		
President and and the second	ALLER TORONOM COMMENTS COME THE COME						T removed		
S and a second section of the	e y gant die eer ee gebruik verschie van de gebruik verschie verschiede versc	Sample on Sample (1978) All All Annaham and All Annaham (1978) Ann							
							American shape of the state of		
7. Description	on of Work	Replaced Compon	ent/Part/Appurtenance						
Additional	Description	Revised hanger 2	MCA-CA-5204 per EC101	081.		_		b	
8. Tests Con	nducted: H	ydrostatic Pneumatic	Nominal Operation	Pressure Exe	empt 🗹 Other 🗀 Pre	ssure	PSI Test Tem	ıp.	
°F Descr	iption (Optic	onal):		Accommendation and highlighted hyper have second at weather the highlighted	maat tii noomi aan oo aan garannoo aaga "ilaan oo ah		And the second s	ar analysis of the first	

9. Remarks (Should Include the Following Info	mation, as Applicable):		Sheet	2 of 2
	(nominal) System Cl	lass: 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	2		
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included elsewhe	ere on NIS-2 Form:		
	BECT THE CALL WINDOW COMMENT OF THE THE PROPERTY OF THE PROPER			
	Applicable Manufac	turer's Data Reports to be attached		
	CERTIFICA	TE OF COMPLIANCE		
I certify that the statements made in the report a	re correct and that this conforms to	o 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 Technica Owner or Owner's Desi		8 Kraes	Date Octo0ber 7	, 20 15
	CEDETITIO ATT OL	THE PROPERTY OF THE PROPERTY O		
I, the undersigned, holding a valid commission		F INSERVICE INSPECTION oiler and Pressure Vessel Inspec	tors and the State or Province of	
North Carolina	and employed h	HSB Global Standards		of
Connecticut	3		Owner's Report during the period	
to 10-13-1 measures described in this Owner's Report in a	, and state that to the best o	of my knowledge and belief, the	Owner has performed examinations and t	aken corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither training from or connected with this inspection.				
JF Swan grome to his		Commissions NB11473-NC15	24, N-1	
Inspector's Signature Date Date	20 25	National Board, State, Province, and Endo		
- 				

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 1___ of 2 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2190066-35 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: Name N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 4. Identification of System CA - Auxiliary Feedwater 19.71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National · Other Year Component Installed (Yes or No) Serial No. Identification Board No. Built Name of Manufacturer Walworth C61682 Yes N/A 2008 Removed 2CA18 BF831 2314 UTC# 1925834 2008 Yes Flowserve Installed 2CA18 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced valve 2CA18 per EC101081. Pressure 60 Pneumatic Nominal Operation Pressure Test Temp. 68 8. Tests Conducted: Hydrostatic Other Exempt PSI Description (Optional): Test performed per procedure MP/0/A/7650/076.

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\underline{2}$ of $\underline{2}$
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	<u></u>
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	a stage in a trape make construct the second of the second
Evn	piration Date N/A
Certificate of Authorization No. N/A Exp	nation Date
Signed FL Grass, Quality Assurance Technical Specialist	Date October 14 , 20 15
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 I	Province of
North Carolina and employed by HSB Global Standards	of
Connecticut have inspected the components described in this Owner's Report during	ing the period
$\frac{5-11-15}{10}$ to $\frac{10-15-15}{10}$, and state that to the best of my knowledge and belief, the Owner has performed	l 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 examinatio	ons 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 pro-	operty damage or a loss of any kind
arising from or connected with this inspection.	
JF Swan aroulfo human Commissions NB11473-NC1524, N-1	e de de de la companya de la company
Inspector's Signature National Board, State, Province, and Endorsements	
Date 15 - 15 , 20 5	

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				
Manufactured and certifi	ed by Flowserve Corporation,	1900 South Saunders St. R	Laleigh, NC 27603					
2 Manufactured for Duk	e Energy PO Box 37925 Charl							
		(name and address)	·····					
3. Location of installation .	3. Location of installation McGuire Site 13225 Hagers Ferry (HWY 73) Huntersville, NC 28078-8985							
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 (edition)	2000 , (addenda date)	(class)	N/A (Code Case no.)				
6. Pump or valve Valve	Nominal inlet gize	6 Outlet	size 6 (In.)					
7. Material:								
(a) valve Body SA	216WCB Bonn SA216WCB	DistSA351CF8M	Bolting SA193-B7	•				
(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.				
BF832 V	2212 /	08109-AA235	08109-AA237	· 08116-AA238				
BF831	2313	08109-AA234 V	08109-AA236 V	08116-AA239				
· · · · · · · · · · · · · · · · · · ·			······································					
,								
			<u> </u>					
		·						
		 						
				·				
•								

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

FORM NPV-1 (Back — Pg. 2 of 2) **BF831 THRU BF832** Certificate Holder's Serial No. °F or valve pressure class 150 V 8. Design conditions 285 9. Cold working pressure psi at 100°F psi. Disk differential test pressure 10. Hydrostatic test 11. Remarks: 45 degree Elbow, SA108, Ht. Code 77347; 90 degree Elbow, SA105, Ht. Code 77582; Stud, SA193-B7, Ht. Code 643; Nut 8A194-2H, Ht. Code 7220464 Pipe, SA106-Gr. B, Ht. Code 274102-1,3,5,7,9 (BF831) Pipe, SA106-Gr. By Ht. Code 274102-2,6,12,8(BF832) BYPASS VALVEY06BMK ON BF831, 05BMK ON BF832 V SO 48633, ITEM 1, 6" FLEX WEDGE GATE VALVE CERTIFICATION OF DESIGN J.M. LAMB Design Specification certified by Reg. no. Design Report certified by ____ 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. . Date /2/16/88 Name Flowserve Corporation (N Certificate Holder) 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 and employed by _ have inspected the pump, or valve, described in this Data Report on , 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.

PROTEINS

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

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/14/2015 526 South Church Street, Charlotte, NC, 28201 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2190067-32 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** Address 4. Identification of System CA - Auxiliary Feedwater 1971 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 ASME Code Corrected. Name of Removed, or Stamped Manufacturer National Other Year Installed Component (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer Walworth C612616 N/A 1976 Yes Removed 2CA116 Yes Yes Crane E3354 N/A UTC# 2033791 2014 Installed 2CA116 7. Description of Work Replaced Component/Part/Appurtenance Additional Description Replaced valve 2CA116 per EC101081. Pressure 60 Pneumatic [8. Tests Conducted: Hydrostatic Nominal Operation Pressure Exempt Other | Test Temp. 68 PSI Description (Optional): Test performed per procedure MP/0/A/7650/076.

9. Remarks (Should Include the Following Information of the Following Info			Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	nominal) System Class: ASME	E Class 3	
Weld Isometric Drawing No(s).: MCFI-2C	47		
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	
The second of th	The second of th	eng separati ya Tan San San San San San San San San San S	
	Applicable Manufacturer's Data Repo	orts to be attached	
	CERTIFICATE OF COM	MPLIANCE	· · · · · · · · · · · · · · · · · · ·
I certify that the statements made in the report a	e correct and that this conforms to the requirer	ments of the ASME Code, Section X	I.
Type Code Symbol Stamp N/A		the state compared as a fix of a payment of each point of the second	and the second s
TVA	- · · · ·		
	e caracteristica e estimate de cuarre e e estado e e e e e e e e e e e e e e e e e e e		Expiration Date N/A
Certificate of Authorization No. N/A		·	Expiration Date 1071
Signed FL Grass, Quality Assurance Technical	Specialist Talkass	ene des esta e la compansa de la participación del participación de la participación del participación de la participación del participación del participación de la participación de la participación de la participación de la participación del p	Date October 14 , 20 15
Owner or Owner's Desig			
<u> </u>			
	CERTIFICATE OF INSERVIO		
I, the undersigned, holding a valid commission			or Province of
North Carolina	and employed by HSB Glob	oal Standards	of
Connecticut	have inspected the compone	ents described in this Owner's Report	during the period
5-5-15 to 10-15-1	, and state that to the best of my knowle	edge and belief, the Owner has perfor	med examinations and taken corrective
measures described in this Owner's Report in ac	cordance with the requirements of the ASME	Code, Section XI.	
By signing this certificate neither the Inspector:	or his employer makes any warranty express	ed or implied concerning the examin	sations and corrective measures described
in this Owner's Report. Furthermore, neither th	Enspector nor his employer shall be liable in	any manner for any personal injury o	r property damage or a loss of any kind
arising from/or connected with this inspection/			
TES	and the state of t	ND11472 NC1524 N 1	en e
JF Swan 2007 C - /w		NB11473-NC1524, N-1 State, Province, and Endorsements	·
	. —	Survey 2 co . Hooy and Endorstoning	
Date / 0 - /5 , 2	15		
<u></u>	•		

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 o	certified by CRANE Nuclea	ır. İnc., 860 Reminaton	Boulevard, Bolingbrook, IL 60	9440	
			(name as	nd address of N Certificate Holder)		-
2.	Manufactured for	Duke Energy Carolinas, LLC		ddress of purchaser)		-
3.	Location of installati	ion McGuire Nuclear Statio	on 13225 Hagers Ferry (na	Rd Hwy 73 Huntersville, NC 2 ame and address)	8078-8985	- .
4.	Model No., Series N	o., or Type <u>5202-WE-</u>	SPL Drawing	CC04304 Rev.	F CRN N/A	-
5.	ASME Code, Section	on III, Division 1: 199			N/A (Code Case no.)	-
6.	Pump or valve	Valve	Nominal inlet size	8" Outlet si	ze <u>8</u> "	· -
7.	Material:					
	(a) valve Body (b) pump Casting	SA216 WCB Bonne Cover		Disk SA351 CF8M Bolting	Bolting See Page 2	-
	(a) Cert. Holder's Serial No.	(b) Nat'I Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.	
	E3354 /	N/A	E3356	E3438 /	E3443 #	 -
\pm						- -
\pm						• •
\vdash						•
	 :					• •
						•
						•
						•
	:					•
						•
						•
						1
						KEN. I
						1 X HV
						10-15
					•	ID

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

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

			Cer	tificate Holder's Serial No	E3354 ·	
8	Design conditions	135 psi	95 F	or valve pressure clas		
		(pressure	. (temperature)	<u> </u>		
9.	Cold working pressure	285		·		
10.	Hydrostatic test	450	Disk differentia	I test pressure	315	
11.	Remarks: Bonnet St	tud - 14 pcs, SA193 Gr. E	7 Unaw 1000000	/		
11.	Bonnet Stud Nut - 28 po	s. SA194 Gr. 2H, Heat# (7, neat# 10226650-	<u></u>		
	By-Pass Valve S/N: 12	1018-5				
	By-Pass Pipe - SA106 (3r. B, Heat# 511568,/Trac	e# 21752-2			
	By-Pass Elbow - SA105	O Item# 0003 CNI SO#	A2061-02			
	DUNET OF COTOTIZE	O REITH UDOS CIVI GON	72001-02			
		CER	TIFICATION OF DES	SIGN		
Desi	gn Specifications certified	by James M	. Lamb, Jr.	P.E. State NC	Reg. no	
Desi	an Report certified by	N/A		P.E. State N/A	Reg. no. N/A	
I						
				· ·		
		ACRE	510.455.05.00.45			
		CERTI	FICATE OF COMPL	IANCE		
	certify that the statements		prect and that this pu	imp or valve conforms to	the rules for construction	
of th	e ASME Code, Section III	, Division 1.				
					•	
N Ce	ertificate of Authorization I	10N	-2899	Expires September	9, 2014	
		•		α	a bod chall	11
Date	03/31/14 N		luclear, Inc.	Signed WWW	LING GUILL	7
		(N Certifi	cale Holder)	(euthori	zed representative - QA Engineer	
·····						
						
		CERT	IFICATE OF INSPEC	CTION		
i, the	undersigned, holding a v		y the National Board of		· •	
have	HSB Global inspected the pump, or v			Hartford 03/31/1		
					o, or valve, in accordance	•
	the ASME Code, Section	· ·	io Oblinicato Flordel I	inas constructes una patri	, 01 12110; 11 20001021100	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,				
Bu s	lantas this sadificate, soit	has the increases see his a			alled concerning the	
	igning this certificate, neiti ponent described in this D	•			•	
1	personal injury or property			• •		
,			2	with the maper		į
		CHITCH				j
Date	03/31/14 Signed	196h //	Commissions	NB 109	89 ANIC	
		(Authorized Nuclear Inspect			ber and Endorsement)	
		Michael Haydon				

(07/11)

1875508

1. Owner Duke E	Energy Carolinas, LLC			Date 10/20/2015	grade Sand Control of the	44 · 44 · 4		
526 Sc	outh Church Street, Charlotte. Address	NC, 28201		— Sheet <u>1</u> of <u>2</u>	* 3 			
2. Plant	McGuire Nuclear Station Name			Unit 2	. • , •	and the second of the second o	en saage of the second	
	12700 Hagers Ferry Road, Addre			2190612-12				
3. Work Performed by	Duke Energy Carolinas, L	LC			Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) Type Code Symbol Stamp:			
	526 South Church Street, Addres		Authorization No.: N/A Expiration Date: N/A					
4. Identification of Syste	em NV - Chemical and Volu	ıme Control	The state of the s	the process of the second seco				
5. (a) Applicable Cons	truction Code ASME III on of Section XI used for Rep	and the second s		dition, Summer and Winter he 2008 Addenda	Add	lenda, N/A	Code Case	
(c) Applicable Section	on XI Code Case(s) N/A							
6. Identification of Com	ponents		- 					
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	
	The second secon		3					
							<u> </u>	
	3		3 ,		,			
	The second control of the second seco	The major of the m	1 7	none de la compansión d				
	1				1			
7. Description of Work	i no i no i no a no a no a no a no a no	ent/Part/Appurtenance/W	<u>reld</u>				11.11.19 1.20 1.	
Additional Description	<u> </u>				-	· · · · · · · · · · · · · · · · · · ·		
8. Tests Conducted: H oF Description (Option	lydrostatic Pneumatic Pneumatic onal): Test performed per pr	Chi amateur Maria a care contra a libraria da la compania	and the second control of	kempt Other Pre	ssure	PSI Test Ten	pp.	

Remarks (Should Include the Following Information)	mation, as Applicable):	Sheet $\underline{2}$ of $\underline{2}$
	(nominal) System Class: ASME Clas	<u>ss 2</u>
Weld Isometric Drawing No(s).: N/A	The state of the s	
Flow Diagram No(s).:	MCFD-2554-01.01	
Support/Restraint Sketch/Drawing No(s).:	N/A	
	o., EC No.) if not included elsewhere on NIS-2 Form	n: EC112794
and the second of the second o	er de la composition de la composition de la composition de la composition de la composition de la composition	
	Applicable Manufacturer's Data Reports to	be attached
	CERTIFICATE OF COMPLI	IANCE
I certify that the statements made in the report a	re correct and that this conforms to the requirements	s of the ASME Code, Section XI.
Type Code Symbol Stamp N/A		
Type Code Symbol Stamp N/A		
	The state of the s	D. A. A. D. NIA
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist A Wina	Date October 20 , 20 15
Owner or Owner's Desig		
		
	CERTIFICATE OF INSERVICE IN	NSPECTION
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure	
North Carolina	and employed by HSB Global Sta	andards of
Connecticut		escribed in this Owner's Report during the period
9-28-15 to 10-20.	$-\sqrt{2}$, and state that to the best of my knowledge a	and belief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in a	ccordance with the requirements of the ASME Code	e, 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 th		manner for any personal injury or property damage or a loss of any kind
arising from or connected with this inspection.	//	
JF Swan Operate	N. N.	B11473-NC1524, N-1
Inspector's Signature		Province, and Endorsements
Date	0 /5	

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/15/2015 526 South Church Street, Charlotte, NC, 28201 Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2190620-12 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 **Expiration Date:** Address 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Identification Board No. Built Name of Manufacturer Duke Energy N/A N/A 1982 Yes **NV System** Installed

7. Description of Work	Add New Component/Pa	art/Appurtenance/Weld						
Additional Description		bolting material per EC112794.	2424 B. C.	An inches	e ne a argen y la estada	a typical and a second	era e recentado e e e	
. 4.44	e is at the first the second and advantage and the control of the term of the first term of the control of the	Nominal Operation Pressure	Exempt	Other	Pressure	PSI	Test Temp.	-
PF Description (Optional): <u>Te</u>	st performed per procedu	ire MP/0/A///00/045.			·			

Remarks (Should Include the Following Information)	nation, as Applicable):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 2 in. ((nominal) System	Class: ASME Class 2	
Weld Isometric Drawing No(s).: N/A	nazada pena a menendi situ i indian militar i indian di salah dan indian di salah dan indian di salah dan di s		
Flow Diagram No(s).:	MCFD-2554-01.01	a ayaa waxaa ayaa ayaa aa aa aa aa aa aa aa aa aa	
Support/Restraint Sketch/Drawing No(s).:	N/A	en der Sieder von der der State in Ericht der Gebeuten der Gebeuten der Gebeuten der Gebeuten der Gebeuten der	
Other Applicable Information (e.g., W.O. No	., EC No.) if not included else	where on NIS-2 Form: EC112	794
and the second s	Maria de la Compania de Caractería de Caractería de Caractería de Caractería de Caractería de Caractería de Ca	and the second of the contract of the second	
	Applicable Man	ufacturer's Data Reports to be attached	
	CERTIFIC	CATE OF COMPLIANCE	· ·
I certify that the statements made in the report a	re correct and that this conform	ns to the requirements of the ASM	E Code, Section XI.
Type Code Symbol Stamp N/A	Sent to the control of the management of the control of the contro	e computer a compact position of the compact and compa	and the second of the second o
Type Code Symbol Stamp N/A			
	r et anne gren i e same i men sond as amme nyme i systemic	the second of the design of the second of the second	Expiration Date N/A
Certificate of Authorization No. N/A		<u> </u>	Expiration Date 2002
Signed FL Grass, Quality Assurance Technical	Specialist	1 8 Mass	Date October 15 , 20 15
Owner or Owner's Desig			7-1
· · · · · · · · · · · · · · · · · · ·			
		OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission			ectors and the State or Province of
North Carolina	and employe	d by HSB Global Standards	of
Connecticut	10 M M M 11 .	•	nis Owner's Report during the period
9-28-15 to 10-15-1	, and state that to the bea	st of my knowledge and belief, the	e Owner has performed examinations and taken corrective
measures described in this Owner's Report in ac	cordance with the requirement	ts of the ASME Code, Section XI.	
By signing this certificate neither the Inspector	nor his employer makes any wa	arranty, expressed or implied, con	cerning the examinations and corrective measures described
in this Owner's Report. Furthermore, neither th	e Inspector nor his employer sl	hall be liable in any manner for ar	ny personal injury or property damage or a loss of any kind
arising from of connected with this inspection.			
JF Swan Orome F. A	Wan	Commissions NB11473-NC	1524. N-1
Inspector's Signature		National Board, State, Province, and En	
	grow f		
Date / 0 - / 5 , 2	0 <u>//</u> 2		

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 2. Plant McGuire Nuclear Station Unit 2 Name 12700 Hagers Ferry Road, Huntersville, NC 28078 2190621-12 Address Work Order # (or Repair/Replacement Organization P.O. No., Job No., etc.) 3. Work Performed by Duke Energy Carolinas, LLC N/A Type Code Symbol Stamp: N/A Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 4. Identification of System NV - Chemical and Volume Control 19 71 Edition, Summer and Winter 5. (a) Applicable Construction Code ASME III 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 Corrected, ASME Code Name of Removed, or Stamped Manufacturer Other National Year Component Installed (Yes or No) Serial No. Identification Board No. Built Name of Manufacturer **Duke Energy** N/A N/A Yes 1982 Installed **NV System** 7. Description of Work Add New Component/Part/Appurtenance/Weld Additional Description Installed orifice and it's bolting material per EC112794. Pneumatic . Exempt 8. Tests Conducted: Hydrostatic Nominal Operation Pressure Other \ Pressure : Test Temp. Description (Optional): Test performed per procedure MP/0/A/7700/045.

9. Remarks (Should Include the Following Information of the Following Info	mation, as Applic	cable):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal)	System Class: ASME Clas	<u>ss 2</u>	
Weld Isometric Drawing No(s).: N/A				
Flow Diagram No(s).:	MCFD-2554-01	1.01		
Support/Restraint Sketch/Drawing No(s).:	N/A		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Other Applicable Information (e.g., W.O. No	o., EC No.) if not	included elsewhere on NIS-2 Form	n: EC112794	
and the state of	A CONTRACTOR OF THE CONTRACTOR	r en en en en en en en en en en en en en		
		Applicable Manufacturer's Data Reports to b	be attached	
	*	CERTIFICATE OF COMPLI		
I certify that the statements made in the report a	ire correct and tha	at this conforms to the requirements	s of the ASME Code, Sectio	n XI.
Type Code Symbol Stamp N/A	42,42,46, 2,496, 1,165, 1,165, 1,165, 1,165	e qui mongra i mendera are agra e qui ter incere e en la com-		,
Type Code Symbol Stamp N/A	<u> </u>			
				en en en en en en en en en en en en en e
Certificate of Authorization No. (N/A				Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist		the property of the property of the same o	Date October 15 , 20 15
Owner or Owner's Desig				Date October 15 , 20 15
	CEI	RTIFICATE OF INSERVICE IN	NSPECTION	
I, the undersigned, holding a valid commission				state or Province of
North Carolina	in and the will all the specific	and employed by HSB Global Sta	andards	of
Connecticut	TO A THE SECTION OF T	have inspected the components de		
9-28-15 10 18-15-1	/ S and state		-	erformed examinations and taken corrective
measures described in this Owner's Report in ac	ccordance with th	ne requirements of the ASME Code	, Section XI.	Troined examinations and taken corrective
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the				
arising from or connected with this inspection.) mapootor nor m	ns oniployer shan oo hable in any n	number for unly personar inju	Ty or property distinge or a loss of any kind
	er av n nr rer e r n n		k in jan mangan kanangan kanangan kanan miningan kanan mengan kanan mengan kanan mengan kanan mengan kanan men	
JF Swan Jerope J. Jw	du		B11473-NC1524, N-1	
Inspector's Signature		National Board, State, P	Province, and Endorsements	
Date / 18 - 15 , 2	20 5			

1. Owner <u>Duke E</u>	nergy Carolinas, LLC			— Date 10/15/2015					
526 So	outh Church Street, Charlotte, 1 Address	NC, 28201		— Sheet 1 of 2	Sheet 1 of 2				
2. Plant	McGuire Nuclear Station Name			Unit 2			* *		
	12700 Hagers Ferry Road, H Address			2192371-08 Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	ob No., etc.)		
3. Work Performed by	Duke Energy Carolinas, LL Name	<u>C</u>		Type Code Symbol	Stamp: N/	A			
· :	526 South Church Street, C Address		5	Authorization Expiration	37/				
4. Identification of Syste	RN - Nuclear Service Wat	er	The second of th	اه این افتحال اهای از انتخاب به این این است. این از این افتحال این این این این این این این این این این	- · · · · · · · · · · · · · · · · · · ·		1 46an 1 an 1844 - 2 a		
5. (a) Applicable Const	truction Code ASME III on of Section XI used for Repa			dition, Summer and Winter he 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case		
(c) Applicable Section	on XI Code Case(s) N/A		 						
6. Identification of Comp	ponents		·		_				
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	Installed	Yes		
	the second to the second of th	**************************************							
			:	1		(
						4			
	And the second of the second o		. 1						
			The state of the s	Note that the second se					
7. Description of Work Additional Description	tings with a series of the control o	nt/Part/Appurtenance/W	ARE COLOR OF THE THEORY						
8. Tests Conducted: H		Nominal Operatio	n Pressure 🔽 Ex	rempt Other Pres	ssure 9	PSITest Ten	np. <u>75</u>		

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 6 in. (nominal) System Class:	ASME Class 3
Weld Isometric Drawing No(s).: MCFI-2RN139	en en en en en en en en en en en en en e
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 I	ata Reports to be attached
CERTIFICATE O	COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the r	equirements of the ASME Code, Section XI.
Type Code Symbol Stamp N/A	
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 , 20 15
Owner or Owner's Designee, Title	Date
CERTIFICATE OF INS	ERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler a	and Pressure Vessel Inspectors and the State or Province of
North Carolina and employed by HS	3 Global Standards of
	nponents described in this Owner's Report during the period
9-27-15 to $10-15-15$, and state that to the best of my 1	nowledge and belief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in accordance with the requirements of the	SME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, e	energed or implied, concerning the examinations and corrective measures described
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be lia	ble in any manner for any personal injury or property damage or a loss of any kind
arising from or connected with this inspection.	
F	
	nissions NB11473-NC1524, N-1 Board, State, Province, and Endorsements
Inspector & Signature /	board, state, Frovince; and Endorsements
Date / 0 - 15	
, - , - , - , - , - , - , - , - , - , -	

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.	Manufactu	rred and c	ertified by 🗸 (CRANE N	iclear, Inc.,	860 Remin	gton Boulevard	, Bolingbro	ok, IL 60	0440
			,		(nai	me and addres	ss of N Certificate Ho	(der)		
			/					•		
2.	2. Manufactured for ✓ Duke Energy Corporation, PO Box 1006, Charlotte, NC 28201-1015									
	Come and address of purchaser)									
			/		(ransang e	erm maness u	i parameer)			
-	1	f innentinet	an Alacuias Nussians	***********************	125 U	F Ord 1	L11477 74 L1		20270 0	005
3.	rocation o	instaliati	on McGuire Nuclear S	Station, 13	225 Hagers	reny Ro.	HWY 73, Hunte	isville, NC	28078-8	985
						(name and	address)			
			_				_	_		
4.	Model No.,	Series No	o., or Type 1WA.	-222LGS-	HXG	Drawing	CC03733	Rev.	8	CRN N/A
							, 	• •		
			_							
5.	ASME Cod	in Section	n III, Division 1:	1995			1996	1/3		N/A
٥.	AUNE CO	ie, decud	THE DIVISION I.	(edition)		19.44	enda dale)	(class)		(Code Case no.)
				(admout)		fance	enda date)	(0.933)		(CODE Case IID.)
•	m	. 4	D. H. 20. 37-3.		(•	A	_	
6.	Pump or va	aive	Butterfly Valve		lominal inter	t size	6	Outlet size	' ——	6
							(in.)			(ia.)
7.	Material:									
							/			
	(a) valve	Body	√SA351, CF8M	Bonnet	N/A	Diek	SA351, CF8	M. D.	olting	N/A
	(a) vaive	Body	V SASSI, Crow	Polyner	IVA	Disk	7 3A331, CFC	HVI D	Oithig _	IVA
			*							
	(b) pump	Casting		Cover		Bolting				
	4									
	(a)		(b)	. *	(c)		(d)			(e)
	Cert.		Nat'i	0.			Bonnet/Cover	-		Disk
				50	dy/Casing			ı		
	Holder's	·	Board		Serial		Serial		,	Serial
	Serial No.		No.		No.		No.			No.
	,		•			-				
	D4233		N/A		D4245		N/A		7	24275
<u>~</u>	D4234		NA		D4246		N/A			04276
				يالسسبب						
	D4235		N/A		D4247		N/A			04277
	D4236		N/A		D4248		N/A			04278
•	D4237		N/A		D4249	•.	N/A		/ [)4279
	, D4239	 ~-	N/A		D4251		N/A		70)4281
	D4240		NA		D4252		N/A			4282
										4283
	D4241		N/A		D4253		N/A			
	:D4242		N/A		D4254	<u>.</u>	N/A			14284
₹	D4244		N/A		D4256		N/A			14286
					 .					
							·			
									1	
			·							
										
							<u></u>			
						_				
					<i></i>					
					 					
		· _								
							,			
										
		/_								
_										
							.,,			

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

10-15-15

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

FORM NPV-1 (Back) --- Pg. 2 of 2 D4233 through D4244 Certificate Holder's Serial No. Design conditions *F or valve pressure class (temperature) 9. Cold working pressure osl at 100°F 10. Hydrostatic test psi. Disk differential test pressure Remarks: PO No. DP13534, PO Item 0010, Duke Item No. 05B-825 CNI SO No. 26276-01 **CERTIFICATION OF DESIGN** 18943 Design Specifications certified by Barry S. Howell P.E. State NC Reg. no. Design Report certified by N/A P.E. State N/A 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-2899 **Expires** September 24, Date 08/30/05 CRANE Nuclear, Inc. Signed Name (N Certificate Holder) **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** 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 flable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. Signed Commissions IL 1903 I(Nat1. Bd. (incl. endorsements) and state or prov. and no.) d Ward

(1) For manually operated valves only.

1. OwnerDuk	e Energy Carolinas, LLC	As Required by the	Provisions of the ASME (Date 10/10/2015		***		
526	South Church Street, Charlott Address	e, NC, 28201		— Sheet 1 of 2	_			
2. Plant	McGuire Nuclear Station Nat			Unit 2				
	12700 Hagers Ferry Road	d, Huntersville, NC 28078 tress	,	2193113-08 Work Order # (or Rep	air/Replacement	Organization P.O. No., Jo	ob No., etc.)	
3. Work Performed b	y <u>Duke Energy Carolinas,</u> Nan			Type Code Symbol	Type Code Symbol Stamp: N/A			
	· · · · · · · · · · · · · · · · · · ·	t, Charlotte, NC 28201-1000 dress	5	Authorizati Expiration	3.7			
4. Identification of Sy	ystem RN - Nuclear Service	Water					AT	
(b) Applicable Ed	onstruction Code <u>ASME III</u> lition of Section XI used for R ction XI Code Case(s) <u>N/A</u>	epair/Replacement Activity		dition, Summer and Winter he 2008 Addenda		lenda, <u>N/A</u>	Code Cas	
6. Identification of Co	` ,							
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	
والمراجع المحاجم المراجع المراجع	A commence of the commence of	news	The second secon	and amountain a party of	و ميدو يا فاقد دو	,		
	Leave to the second sec	La contraction of the contractio						
a see and the second		Section 1 and 1 an				1		
	The company of the co	1 1 1 m 11 m 1 m 1 m 1 m 1 m 1 m 1 m 1	1				7	
	** ** ** ** ** ** ** ** ** ** ** ** **		· · · · · · · · · · · · · · · · · · ·				,	
7. Description of Wo	rk Add New Compo	onent/Part/Appurtenance/W	<u>eld</u>					
Additional Descript	ion Added piping p	er EC107431		en projection and the second of the second o				
8. Tests Conducted:	a service appropriate transfer of the first party of	A SANTA AT A SANTA A S		kempt Other Pre	essure 1.7	PSI Test Ten	np. 62.6	
^o F Description (O	ptional): Test performed per	procedure MP/0/A/7650/07	<u>6.</u>					

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
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	· · · · · · · · · · · · · · · · · · ·
en en en en en en en en en en en en en e	
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 X	I.
Type Code Symbol Stamp N/A	
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	Expiration Date N/A
Certificate of Authorization 1vo.	
Signed FL Grass, Quality Assurance Technical Specialist	Date October 10 , 20 15
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 perform	med 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 examin	ations 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 o	r property damage or a loss of any kind
arising from or connected with this inspection.	
JF Swan Jerone To Juan Commissions NB11473-NC1524, N-1	
Inspector's Signature National Board, State, Province, and Endorsements	
Date	

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

As Required by the Provisions of the ASME Code Section XI Duke Energy Carolinas, LLC 1. Owner Date 10/20/2015 526 South Church Street, Charlotte, NC, 28201 of 2 Address 2. Plant McGuire Nuclear Station Unit 2 12700 Hagers Ferry Road, Huntersville, NC 28078 2197098-13 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 Authorization No.: 526 South Church Street, Charlotte, NC 28201-1006 N/A **Expiration Date:** 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 ASME Code Corrected, Name of Removed, or Stamped Manufacturer National Other Year Component Installed (Yes or No) Serial No. Board No. Identification Built Name of Manufacturer N/A 1982 Yes **Duke Energy** Installed NI System 7. Description of Work Add New Component/Part/Appurtenance/Weld Additional Description Added piping per EC110201. Pressure 1500 PSI Pneumatic . Exempt [Other | Test Temp. 86 Nominal Operation Pressure 8. Tests Conducted: Hydrostatic Description (Optional): Test performed per procedure MP/0/A/7650/076.

9. Remarks (Should Include the Following Infor	rmation, as Applicable):			Sheet $\frac{2}{2}$ of $\frac{2}{2}$	
	(nominal) System	n Class: ASME Class 2			
Weld Isometric Drawing No(s).: MCFI-2N	NI7				
Flow Diagram No(s).:	NCFD-2562-03.01				. ***
Support/Restraint Sketch/Drawing No(s).:	N/A				
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included else	ewhere on NIS-2 Form: EC11020	1	 	
	and the second of the second o	· · · · · · · · · · · · · · · · · · ·			**
	Applicable Mar	nufacturer's Data Reports to be attached			
-	CERTIFI	CATE OF COMPLIANCE	· · · · · · · · · · · · · · · · · · ·		
I certify that the statements made in the report a	are correct and that this conform	ns to the requirements of the ASME	Code, Section XI.		
Type Code Symbol Stamp N/A	to the man and and the second of the second	ne de la composición de la composición de la composición de la composición de la composición de la composición			
TVA					
Certificate of Authorization No. N/A			Evnira	tion Date N/A	
Certificate of Authorization No.			Схрпа	Non Date	
Signed FL Grass, Quality Assurance Technica	1 Specialist	-Telline	Ι	Date October 20	ງ 15
Owner or Owner's Design	gnee, Title			,	
					
		OF INSERVICE INSPECTION			
I, the undersigned, holding a valid commission	issued by the National Board of	of Boiler and Pressure Vessel Inspect	ors and the State or Pro	vince of	
North Carolina	and employe	ed by HSB Global Standards		c	of
Connecticut		ted the components described in this	•	•	
3-9-15 to 10-20	$\frac{-15}{5}$, and state that to the be	est of my knowledge and belief, the C	Owner has performed ex	aminations and taken correcti	ive
measures described in this Owner's Report in a	ccordance with the requiremen	its of the ASME Code, Section XI.			
By signing this certificate neither the Inspector	nor his employer makes any w	varranty, expressed or implied, concer	rning the examinations	and corrective measures desc	ribed
in this Owner's Report. Furthermore, neither the	he Inspector nor his employer s	shall be liable in any manner for any p	personal injury or prope	erty damage or a loss of any k	aind
arising from or connected with this inspection.					
JF Swan Orman E.	la Maria	Commissions NB11473-NC152			
Inspector's Signature	para _	National Board, State, Province, and Endors			
	7				
Date 10 - 20, 2	20.15				

1. Owner _	Duke Er	nergy Carolinas, LLC	· 		— Date 10/8/2015			
	526 Sou	uth Church Street, Charlotte, No.	C, 28201		- Sheet 1 of 2			
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, Hu	intersville, NC 28078		20002829-98			
		Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Per	formed by	Duke Energy Carolinas, LLC Name			Type Code Symbol St		manufic comments and an extensive state of the state of t	
		526 South Church Street, Ch.	arlotte NC 28201-1006		Authorization	·	CONTRACTOR OF THE PROPERTY OF	- CONTRACTOR OF THE STATE OF TH
		Address	ariotte, 14C 20201-1000	· · · · · · · · · · · · · · · · · · ·	Expiration I	Date: N/	'A	
4. Identificat	tion of Syste:	m NV - Chemical and Volume	e Control					
		ruction Code ASME III n of Section XI used for Repair	r/Replacement Activity.		tion, Summer and Winter 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
(c) Appl	icable Sectio	n XI Code Case(s) N/A					No.	•
6. Identifica	tion of Comp	oonents						
4	ne of conent	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
3 2 3 3 4 A 20 MARCH THE RESIDENCE OF TRAME							The state of the s	
		AND THE PROPERTY OF A STATE OF THE PROPERTY OF					And the first	
Section 21 - Section 22 - Secti							S. Commonwell of the Commonwel	
the terror of th							A constraint of the constraint	
\$							Season Marie Control	
7. Description	on of Work	Replaced Component	/Part/Appurtenance				···•	·.·
Additional	Description	Replaced bolting ma	aterial in rupture restraint	t on cold leg of 2A.	taller viktor och en til til state fill kompten grappen och en fortiller i kilolike stolke statellande i en bedente	Philadelian suspense among the section of		7 Av
	nducted: Hy	ydrostatic Pneumatic C			mpt Other Press	ure	PSI Test Ten	np.

9. Remarks (Should Include the Following Infor		Sheet $\boxed{2}$ of $\boxed{2}$
Component Line Size: 3 in. Weld Isometric Drawing No(s).: N/A	(nominal) System Class: <u>ASME Class 2</u>	
Flow Diagram No(s).: N/A	Property of the control of the contr	
• , ,	MCFD-2554-01.02	
Support/Restraint Sketch/Drawing No(s).:	MC-1690-418-001	STATE AND A STATE OF THE STATE
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2 Form:	
	Applicable Manufacturer's Data Reports to be a	ttached
<u> </u>	CERTIFICATE OF COMPLIAN	NCE
I certify that the statements made in the report a	re 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 I Thun	Date October 8 , 20 15
Owner or Owner's Design		Date :, 20;,
	CERTIFICATE OF INSERVICE INSI	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Ve	essel Inspectors and the State or Province of
North Carolina	and employed by HSB Global Stand	ards of
Connecticut	have inspected the components desc	ribed in this Owner's Report during the period
9-18-15 to 10-12-	, and state that to the best of my knowledge and ecordance with the requirements of the ASME Code, S	belief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in a	bordance with the requirements of the Asimir Code, 5	cotton 7xx.
		plied, concerning the examinations and corrective measures described
arising from ϕ r connected with this inspection.	e Inspector nor his employer shall be liable in any man	mer for any personal injury or property damage or a loss of any kind
		·
JF Swan Grone f. hu	Commissions NB1	1473-NC1524, N-1
Inspector's Signature	National Board, State, Prov	ince, and Endorsements
Date	0/25	

1. Owner Duke E	Energy Carolinas, LLC		 	— Date 10/8/2015			
526 Sc	outh Church Street, Charlotte, N	C, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, H	untersville, NC 28078		20014137-25	on the second second second second second second second second second second second second second second second		***
	Address			Work Order # (or Repair	/Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name	2		Type Code Symbol S		· · · · · · · · · · · · · · · · · · ·	
. *	526 South Church Street, Ch	parlotte NC 28201_1006		Authorization	g	transmission of the second second second second second second second second second second second second second	
	Address	arione, INC 20201-1000	<u> </u>	Expiration	Date: N/	Α	-
4. Identification of Syste	em KC - Component Cooling				**************************************		***************************************
(b) Applicable Editi	truction Code ASME III on of Section XI used for Repai	r/Replacement Activity		ition, Summer and Winter e 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
(c) Applicable Secti	on XI Code Case(s) N/A					Compagne	
6. Identification of Com	ponents						_
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
						in the constant of the constan	
grand # F F 2 mm. Substitute Majorija majorija kao patrikan mjera pravije po jest, 1907. Majorija Patrikan kao jest jest jest jest jest jest jest jest						Stores and and	
The state of the s						department of the second	
E CONTRACTOR OF THE PROPERTY O		Section 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1				C. Contraction	
			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		- Constitution	et account	
7. Description of Work	Replaced Componen	t/Part/Appurtenance					
Additional Description	Installed hanger 2-N	MCA-S-KC-512-1-I per	EC109070.				
8. Tests Conducted: H	Iydrostatic Pneumatic	Nominal Operation	n Pressure 🗀 Exe	empt 🗹 Other 🗀 Pres	sure	PSI Test Tem	ıp.
^o F Description (Opti	onal):						

Remarks (Should Include the Following Information)	nation, as Applicable):	Sheet 2 of 2
Component Line Size: 2 in. ((nominal) System Class: ASME Class	<u>8s 3</u>
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	THE RESIDENCE OF THE PROPERTY
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2 Form	n: EC109070
	Applicable Manufacturer's Data Reports to	be attached
<u> </u>	CERTIFICATE OF COMPLI	IANCE
I certify that the statements made in the report as	re correct and that this conforms to the requirements	
toothy that the statements made in the report a	c correct and that this contorns to the requirement	of the Howard Code, Section 14.
Type Code Symbol Stamp N/A		
-		
Certificate of Authorization No. No.		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist ISh.u	Date October 8 20 15
Owner or Owner's Design		,, 20,
	CERTIFICATE OF INSERVICE IN	NSPECTION
I, the undersigned, holding a valid commission i	issued by the National Board of Boiler and Pressure	Vessel Inspectors and the State or Province of
North Carolina	and employed by HSB Global St	andards of
Connecticut	<u> </u>	escribed in this Owner's Report during the period
9-27-15 to 10-8-15 measures described in this Owner's Report in ac	and state that to the best of my knowledge a accordance with the requirements of the ASME Code	and belief, the Owner has performed examinations and taken corrective e, Section XI.
		implied, concerning the examinations and corrective measures described manner for any personal injury or property damage or a loss of any kind
JF Swan Propel - wo		B11473-NC1524, N-1
Inspector's Signature Date 2	National Board, State, I	Province, and Endorsements
, 2	······································	

1. Owner <u>Duke Er</u>	nergy Carolinas, LLC			— Date 10/8/2015	d Adriah - Abba Marrows - arman - arman arman abba		
526 Sou	uth Church Street, Charlotte, NO	2, 28201		- Sheet $\boxed{1}$ of $\boxed{2}$			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		20019382-01			200
	Address			Work Order # (or Repair/F	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, LLC</u> Name			Type Code Symbol Sta	•	and the same of th	
	526 South Church Street, Char Address	rlotte, NC 28201-1006		Authorization Expiration D	5.T/	and the second second second second second second second second second second second second second second second	As dept. Hereby possible
4. Identification of Syste	m NV - Chemical and Volume	Control		10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
	n of Section XI used for Repair	Replacement Activity		tion, Summer and Winter 2008 Addenda	Add	enda, N/A	Code Case
(c) Applicable Section	n XI Code Case(s) N/A						
6. Identification of Comp	ponents	,					·• · · · · · · · · · · · · · · · · · ·
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
				A contract that is a particular of the second of the secon		for name tilly.	
				The second section of the School Scho		Politograma	
\$						KALIMANANAN K	
A A A Side as a series of the second of the	The state of the s				h rumana processor	· Construction of	
7. Description of Work	Replaced Component	Part/Appurtenance					
Additional Description	Replaced snubber on	hanger 2MCA-S-NV-5	23-01T.				7
8. Tests Conducted: Hyor Option (Option)	And the first of the second se	Nominal Operation	Pressure Exer	mpt 🗹 Other 🗆 Pressu	ire	PSI Test Temp).

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet 2 of 2	_
Component Line Size: 4 in.	(nominal) System Class: <u>ASME Class 2</u>		
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	o., EC No.) if not included elsewhere on NIS-2 Form:	and the state of t	
AND THE WAY THE THE THE THE THE THE THE THE THE THE			
	Applicable Manufacturer's Data Reports to be attac	ched	
	CERTIFICATE OF COMPLIANC	Œ	
I certify that the statements made in the report a	are correct and that this conforms to the requirements of the	ne 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	l Specialist A than	Date October 8 , 20	15
Owner or Owner's Desig		, av	
	CERTIFICATE OF INSERVICE INSPE	CTION	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vess	el Inspectors and the State or Province of	
North Carolina	and employed by HSB Global Standard	dsof	f
Connecticut	· ·	ed in this Owner's Report during the period	
$\frac{9-22-15}{\text{measures described in this Owner's Report in an experience}}$	and state that to the best of my knowledge and be accordance with the requirements of the ASME Code, Sect	elief, the Owner has performed examinations and taken corrective tion XI.	ve
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection.	nor his employer makes any warranty, expressed or impli- ne Inspector nor his employer shall be liable in any manne	ied, concerning the examinations and corrective measures descri er for any personal injury or property damage or a loss of any kin	ibed nd
JF Swan propel - Jwa	Commissions NB114	73-NC1524, N-1	
Inspector's Signature	National Board, State, Province		
Date 10-12 2	young a part		

1. Owner <u>Duke</u>	Energy Carolinas, LLC	<u> </u>		— Date 10/19/2015		· · · · · · · · · · · · · · · · · · ·	
526 S	South Church Street, Charlotte, Address	NC, 28201	· · · · · · · · · · · · · · · · · · ·	— Sheet <u>1</u> of <u>2</u>			
2. Plant	McGuire Nuclear Station Name	•		Unit 2			
	12700 Hagers Ferry Road,	Huntersville, NC 28078		20021703-10	· pr		· · · · · · ·
	Addre				/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	<u>Duke Energy Carolinas, L</u> Name			Type Code Symbol S	_		
	526 South Church Street,	 Charlotte: NC 28201-100 <i>6</i>	5	Authorization			*
	Addre		,	Expiration 1	Date: N/	<u>A</u>	
4. Identification of Sys	tem NI - Safety Injection	and the same of th					· ·
(b) Applicable Edit	struction Code ASME III tion of Section XI used for Rep	pair/Replacement Activity		lition, Summer and Winter ne 2008 Addenda	Add	lenda, <u>N/A</u>	Code Case
(c) Applicable Sect	tion XI Code Case(s) N/A				<u>.</u>		
6. Identification of Cor	mponents						
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	Removed	Yes
2NI482	Borg Warner	72086	N/A	UTC# 30031959	1981	Installed	Yes
		purphished I demonstrate to algorithm and to the common white the	See all the second seco	and the second of the second o			
a again a am see see an	the second of th	hara area sa an area area area area.	to the fact of the first of the	militar souther and the substitution of the su	suffer assume the		
		ton. Claritation and pro-					
7. Description of Work Additional Description	e de la companya del companya de la companya del companya de la companya del companya de la companya de la companya del companya de la companya de la companya de la companya de la companya del companya	ent/Part/Appurtenance NI482 per EC401256.					
8. Tests Conducted: Opto			on Pressure 🔽 Ex	empt Other Press	sure	PSI Test Ten	np

9. Remarks (Should Include the Following Information Component Line Size: 1 1/5 in (Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 1 1/5 in. (Weld Isometric Drawing No(s).: MCFI-2N	nominal) System Class: ASME Class 2	and the second of the second o
	MCFD-2562-01.00	
Flow Diagram No(s).:		
Support/Restraint Sketch/Drawing No(s).:	N/A	<u> </u>
Other Applicable Information (e.g., W.U. No	., EC No.) if not included elsewhere on NIS-2 Form: EC40125	i6
	Applicable Manufacturer's Data Reports to be attached	
· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report as	re correct and that this conforms to the requirements of the ASME	Code, Section XI.
Type Code Symbol Stamp N/A		
1) Pt 3322 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist To than	Date October 19 , 20 15
Owner or Owner's Design	nee, Title	
the undersioned holding a valid commission i	CERTIFICATE OF INSERVICE INSPECTION ssued by the National Board of Boiler and Pressure Vessel Inspect	tors and the State or Province of
North Carolina	and employed by HSB Global Standards	and the second of the second o
Connecticut	,	Orman's Bornet during the main d
	have inspected the components described in this	
measures described in this Owner's Report in ac	and state that to the best of my knowledge and belief, the coordance with the requirements of the ASME Code, Section XI.	Owner has performed examinations and taken corrective
De signing this cartificate neither the Inspector :	nor his employer makes any warranty, expressed or implied, conce	remine the arguminations and corrective massures described
in this Owner's Report. Furthermore, neither the	e Inspector nor his employer shall be liable in any manner for any	
arising from or connected with this inspection!	•	
I_ /	ND11472 NO15	
JF Swan / Complete Signature	Commissions NB11473-NC15: National Board, State, Province, and Endor	
mspector's dignature	विद्याणांवा प्रण्याप, ठावान, १ १०७१११००, वाच जाउन	sements
Date / 10 - 20 , 2	<u>175</u>	

	•		,		
CORES 1181 4 11		A		DILLEGE AS	1244 (4550
PURKENTY II	CERTIFICATE HOLDERS	DATA REFURI	TUR NUCLEAR	FUMPS ON	AMAGE
4	a Required by the Provision	a	Paula (Backles (H	Rb. 1	

	inome and Address of Put Braidwood Station iname and Address		Į.		· · · · · · · · ·	
	Globe Valve	Nominal	Inlet Size	1_1/2 (inch)	Jutiet SizeI	1/2
(a) Model No., (t Series No.) N Certificate Holder's Serial	(c) Conedian	(d) Drawing		(f) Mar's	(g) Y
or Type	No.	No.	No.	(e) Class	Ed. No.	Qui
15000	72080 thru 7208	9 N/A	106ECB1-	002 2	N/A	19
)						
3) ————						
4						
P						
71		·				
# 						
))						
	re designed to he	ndle e fin	ed mades whi	ch teals	les steem.	-1207
amidenzata. 1	torated water, at		and with a	The end	DE TA	
	Stief Gentler G	A 14-100 PM	an gaverners was	Target.		
CEMPETER CHES	LEADER LACING O		L LE SYRESS			
			}	·		
	3600	100	1	resoure Class	N/A	
esign Considerei	3600 pel	100	1		N/A	
eelen Conditione	3600 pel	100	1		N/A	····
esign Conditions	3600 pel	100	1		N/A	
esign Conditions	3600 pel	100 '	1	resoure Class	N/A Remark	
esign Conditions	3600 pel at 10	100 '	T or Valve	resoure Class		
ealgn Conditions old Working Pressure ressure Retaining Place Mark No. I Castings Lss:-Code 4924,	3600 pel at 10	100 Transporter	T or Valve	Tressure Class		.
esign Conditions	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve	Tressure Class		
ealgn Conditions old Working Pressure ressure Retaining Place Mark No. I Castings Lss:-Code 4924,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve	Tressure Class		8
ealgn Conditions old Working Pressure ressure Retaining Place Mark No. I Castings Lss:-Code 4924,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve	Tressure Class		
ealgn Conditions old Working Pressure ressure Retaining Place Mark No. I Castings Lss:-Code 4924,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	resoure Closs		
ealgn Conditions old Working Pressure ressure Retaining Place Mark No. I Castings Lss:-Code 4924,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	Tressure Class		
ealgn Conditions old Working Pressure ressure Retaining Picc Mark No. I Castings Lsc-Code 4024,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	resoure Closs		
edge Conditions old Working Pressure ressure Retaining Picc Mark No.) Castings .sc-Code 4924,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	ressure Class		
enign Conditions old Working Pressure ressure Retaining Picc Mark No.) Castings .sc-Code 4924,	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	resoure Closs		
ealgn Conditions	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	ressure Class		
ealgn Conditions	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	ressure Class		
ealgn Conditions	3600 pel (Present) 3600 pel et 1	100 Transporter	T or Valve F Manufac	ressure Class		
ealgn Conditions	3600 pel Chrescutal 3600 pel et 11 Mesorial Sp Colimonoy &	100 Transporter	Manufac Res Prac Compton	resoure Class		
ealgn Conditions	3600 pel (Pressure) 3600 pel et 11 Meserial Sp Colimonoy è	100 Transporter	Manufac	resoure Class		
ealen Conditions old Working Pressure ressure Retaining Place Mark No. 1 Cestings .sc-Code 4924, 41.14	3600 pel Chrescutal 3600 pel et 11 Mesorial Sp Colimonoy &	100 Transporter	Manufac Res Prac Compton	resoure Class		
ealen Conditions old Working Pressure ressure Retaining Place Mark No. 1 Cestings .sc-Code 4924, 41.14	3600 pel Chrescutal 3600 pel et 11 Mesorial Sp Colimonoy &	100 Transporter	Manufac Res Prac Compton	resoure Class		
ealgn Conditions	3600 pel Chrescutal 3600 pel et 11 Mesorial Sp Colimonoy &	100 Transporter	Manufac Res Prac Compton	resoure Class		
lesign Conditions old Working Pressure ressure Retaining Piece Mark No. U Cestings LISC-Code 4924, 4114	3600 pel Chrescutal 3600 pel et 11 Mesorial Sp Colimonoy &	100 Transporter	Manufac Res Prac Compton	resoure Class		

FORM	NPV-1	(Back)
------	-------	--------

	LOKIN INTA-	(crest	
Mark No.	Material Spec. No.	· Manufacturer	Remarks
i Saiting N/A			
	<u> </u>		
		 	
	 		
	ļ	 	
			
	 	 	
(d) Other Farts N/A		<u> </u>	
		 	
		 	
		 	
······································			
	i		
		 	
frontante test 5400 p	d. Disk Differential test pressure. 3	600 pat.	
	CENTRICATE OF CO	MPLIANCE	
artify that the statement	s made in this report are correct a	nd that this pump, or valve.	conforms to the rules of
ruction of the ASME Co	ode for Nuclear Power Plant Compo	ongets. Section III. Div 1, Edi	ton1974
nde <u>Winter '75</u>	, Code Case NoN/A	Date Child	1987
Muclear Valve	Div. Borg Warner	Demette XY	MASTER
(M Cartiflagae M	(447)		10/27/81
VSME Certificate of Autho	rizetion Noto ue	e triesyrribo	(expires _AY/A/AAA.
·		~~~~	
•	Centification of	DESIGN	
	VD of Bore Vermer, 7500 1	Personal Arms. Ten Mores	. Ca. 91A69

. CERTIFICATION OF DESIGN Design Information on file at TVD of BORR Warmer, 7500 Tyrona Ave. Stress ensiye's report (Class 1 only) on file at N/A	Van Muys, Ca, 91409
Ossign soscifications canified by (1) Gagges P. Royakes PE State 13.2 Reg. No. 28646	
Stress analysis cartified by (1) N/A N/A Reg. No. N/A	1
(1) Signature not required. List name only.	

والمراجع والمناز والمن
CERTIFICATE OF SHOP INSPECTION
L the undersigned, holding a valid commission issued by the National Board of Soliter and Pressure Vessel Inspectors and the State or Province of
of Long Grove, 111 Inpix have inspected the pump, or valve, described in this Data Report on 7/30 19 21, and state that to the best of my throwledge and belief, the N Cortificate 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 describes in this Date Report, Furthermore, neither the inspector nor his employer shall be liable in any
mainter for any personal injury or property demage or a loss of any kind arising from or connected with this inspection. Date: 1981. Commissions 1275 CA;
(Meri Bd., State, Frov. and Hel

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.

. Table 6-1					
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	
	e de la companya della companya della companya della companya de la companya della		marries .		
С-Н	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.

Table 6-2 Detailed Class 1 Listing				
Zone Number	Boundary Dwg	EOC23 Completion Status	EOC23 VT-2 Examination Date	Code Cases Used
2NC-001L-A	MC-ISIL4-2553-01.00	Complete	10/08/2015	None
	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			

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						
				VT-2	Code		
				Examination	Cases		
	Zone Number	Boundary Dwg	Completion Status	Date	Used		
1	2BB-074L-B	MC-ISIL4-2572-03.00	Complete	10/08/2015	None		
		MC-ISIL4-2580-01.00					
		MC-ISIL4-2584-01.00					
2	2CA-040L-B	MC-ISIL4-2592-01.00	Complete	10/08/2015	None		
		MC-ISIL4-2584-01.00					
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	Complete	09/12/2015	None		
		MC-ISIL4-2561-01.00					
		MC-ISIL4-2562-03.00					
		MC-ISIL4-2562-03.01					
		MC-ISIL4-2563-01.00			í		
		MC-ISIL4-2571-01.00					
		MC-ISIL4-2572-01.00					
6	2NI-014L-B	MC-ISIL4-2562-02.01	Complete	09/30/2015	None		
		MC-ISIL4-2562-03.00					
7	2NV-003L-B	MC-ISIL4-2554-01.00	Complete	10/08/2015	None		
		MC-ISIL4-2554-01.01					
		MC-ISIL4-2554-01.02					
		MC-ISIL4-2554-01.03					
8	2SM-040L-B	MC-ISIL4-2591-01.01	Complete	10/08/2015	None		
		MC-ISIL4-2593-01.00					
		MC-ISIL4-2593-01.03	<u> </u>				