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Serial No: MNS-14-058

July 23, 2014

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 22 Refueling Outage

In accordance with ASME Section XI, attached is the Inservice Inspection Report for the end of cycle 22 (EOC-22) refueling outage for McGuire Nuclear Station, Unit 2. This is the last outage of the third inspection period of the third ten year interval.

Section 4.4 of the report lists the item numbers with limited examinations. A relief request will be submitted for these items.

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

Sincerely,

Steven D. Capps

Attachment

AOUT

U. S. Nuclear Regulatory Commission July 23, 2014 Page 2

XC:

Victor McCree, 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 REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

2.	Plant: McGui	ira Nualaar Station	n, 12700 Hager's F	arnı Road Hunter	revilla N.C. 28079
۷.	riant. <u>Miccau</u>		e and Address of I		SVIII.O. 2007 C
3.	Plant Unit:	2 4. Owne	or Certificate of Aut	horization (if requ	ired) <u>N/A</u>
5.	Commercial S	Service Date: <u>Marc</u>	h 1, 1984 6. Nati	onal Board Numb	er for Unit <u>84</u>
7.	Components	Inspected:			
	Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
		See Sect	i <u>on 1.1 in the A</u> ttach	ed Report	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
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Total number of pages contained in this report 169

8.	Examination Dates	November 30, 2012	to	April 24, 2	2014		
9.	Inspection Period Identificat	tion: Third	Period				
10.	Inspection Interval Identifica	ition: Third	nterval				
11.	Applicable Edition of Section	n XI <u>1998</u>	Ac	idenda _	2000		
12.	Date / Revision of Inspectio	n Plan: <u>June</u>	20, 2006 / Rev	ision 2			
13.	13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Sections 2.0. 3.0 and 6.0						
14.	Abstract of Results of Exam	inations and Tests.		See Section	4.0 and 6.0		
15.	Abstract of Corrective Meas	ures.	\$	ee Subsec	tion 4.3		
Insp	certify that a) the statements ection Plan as required by the of the ASME Code, Section	e ASME Code, Secti					
Cert	ificate of Authorization No. (If	applicable)	N/A	Expir	ration Date	N/A	
Date	7/17/2014	Signed <u>Duke Ene</u> <u>Carolina's</u> Owner	\$	770	atoli- DHA CHARTE	RIMA	
		CERTIFICATE OF IN	ISERVICE IN	BPECTION			
Inspector comments correctly	e undersigned, holding a valid ectors and the State or Provi ponents described in this Ow to the best of my knowledge ective measures described in the ASME Code, Section XI.	nce of <u>North Carolina</u> rner's Report during a and belief, the Owne	employed by the period <u>Nov</u> r has perform	HSB Globe rember 30. 2 ed examina	al Standards have 2012 to April 24, ations and tests a	e inspected the 2014 and state and taken	
cond	igning this certificate neither terning the examinations, tes ner the inspector nor his emp loss of any kind arising from	ts, and corrective me loyer shall be liable i	asures descri n any manner	bed in this (Owner's Report.	Furthermore,	
Jer	ore F. Jwan C Inspector's Signature	Commissions N	B 11473 N.C. National Boa		NS rovince, and End		
/ Dat	7717	014		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
20 Su Atl	SB Global Standards 0 Ashford Center North hite 205 hanta, GA. 30338-4860 00) 417-3721						

OWNER'S REPORT FOR INSERVICE INSPECTIONS

MCGUIRE UNIT 2

2014 REFUELING OUTAGE EOC 22 (OUTAGE 7) (Third interval)

Plant Location: McGuire Nuclear Station

- 6

12700 Hager's Ferry Road

Huntersville, North Carolina 28078 - 9340

NRC Docket No. 50-370 National Board No. 84

Commercial Service Date: March 1, 1984

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

Revision 0

Originated By:	James C. Chuy to	Date	07/14/2014
Checked By:	Hoang J. Shil	Date	7/17/2014
Approved By:	John Charterin	Date	7/17/2014

DISTRIBUTION LIST

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

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6.0	Pressure Testing	0

SECTION 1

1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's McGuire Nuclear Station Unit 2 during Outage 7 / EOC 22. This is the last outage of the Third Inspection Period of the Third Ten Year Interval. ASME Section XI, 1998 Edition with the 2000 Addenda, was the governing Code for selection and performance of the ISI examinations.

Included in this report are the inspection status for each examination category, the final inservice inspection plan, the inspection results for each item examined, and corrective action(s) taken when reportable conditions were found. In addition, there is an Owner's Report for the Repair / Replacement Section included for completed NIS-2 documentation of repairs and replacements.

1.1 <u>Identification Numbers</u>

ltern	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	etor Coolant Pump Westinghouse		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)

ltem	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 Plan Manager at Duke Energy Carolina's Corporate Office in Charlotte, North Carolina:

Code Case N-460 Alternative Examination Coverage for Class 1 and Class 2 Welds, Section XI, Division 1. Applicable to items in this report where less than 100% coverage of the required weld examination volume was achieved.

Code Case N-566-2 Corrective Actions for Leakage Identified at Bolted Connections, Section XI, Division 1.

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

Problem Investigation Process (PIP) No. M-12-08728 This PIP was written to document the lack of PDI-UT 2 calibration and scanning data that was created during the examination of Component ID 2NV2FW178-22 (Summary Number M2.R1.11.0277) performed in the 2EOC21 Refueling Outage. This examination was re-performed during the 2EOC22 Refueling Outage.

Problem Investigation Process (PIP) No. M-14-03153 This PIP was written to document three areas indicative of thermal fatigue conditions discovered during the UT examination on NC piping. Reference Component ID Cold Leg 2D Nozzle 4-1 (Summary Number M2.G13.1.0001) and Component ID 2NC2FW45-5 (Summary Number M2.R1.11.0051).

Problem Investigation Process (PIP) No. M-14-03388 This PIP was written to document the NDE evaluation of the previous UT examination results (Reference PIP M-14-03153) and lab reports to determine if the flaw discovered in the 2014 examination should have been identified during the previous examination in 2012.

Problem Investigation Process (PIP) No. M-14-05018 This PIP was written to document coverage limitations found during the ultrasonic examination of NC piping for thermal fatigue cracking. Although this PIP shows 4 NC Welds with limited coverage, only 2 welds are part of the 2EOC22 ISI Plan. The other 2 NC Welds were examined per MNS Engineering request as part of the Engineering Program Evaluation.

Problem Investigation Process (PIP) No. M-14-06388 This PIP was written to document coverage limitations found during the ultrasonic examination of Component ID 2RCHPA-10-1 (Summary Number M2.C1.20.0025) in 2EOC22.

Problem Investigation Process (PIP) Nos. M-14-01421, M-14-01425, M-14-01427, M-14-01661, M-14-01662, M-14-01803, and M-14-01921 These PIPs were written to document and resolve component support problems identified during 2EOC22.

Relief Request 03-002 Class 1, 2 and 3 snubber examinations under station technical specification SLC 16.9.15

Relief Request 01-005 Risk Informed Inservice Inspection Program Submittal

Relief Request 01-008 Risk Informed ISI Alternative to Use VT-2 Instead of Volumetric Examination of Socket Welds

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

SECTION 2

2.0 Third Ten Year Interval Inspection Status

The completion status of inspections required by the 1998 ASME Code Section XI through the 2000 Addenda is summarized in this section. The requirements are listed by the ASME Section XI Examination Category as defined in Table IWB-2500-1 for Class 1 Inspections, Table IWC-2500-1 for Class 2 Inspections and IWF-2500-1 for Class 1, 2 and 3 Component Supports. Augmented, Elective, and Risk Informed Inspections are also included.

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

Class 1 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	(1)Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	15	3 Note (8)	20.00%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	5	5	100.00%	No
B-D	Full Penetration Welded Nozzles in Vessels Inspection Program B	40	24 Note (8)	60.00%	Partial
B-F	Pressure Retaining Dissimilar Metal Welds in Vessel Nozzles	Reference Risk Informed Program R-A Items	N/A	N/A	Note (2)
B-G-1	Pressure Retaining Bolting Greater than 2" in Diameter	241	241	100.00%	Yes
B-G-2	Pressure Retaining Bolting 2" and Less in Diameter	22	22	100.00%	No

Class 1 Inspections (Continued)

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	(1)Deferral Allowed	
B-J	Pressure Retaining Welds in Piping	Reference Risk Informed Program R-A Items	N/A	N/A	Note (2)	
В-К	Welded Attachments for Vessels, Piping, Pumps and Valves	5	5	100.00%	No	
B-L-1	Pressure Retaining Welds in Pump Casings	N/A	N/A	N/A	Yes	
B-L-2	Pump Casings	1	0 Note (6)	00.00%	Yes	
B-M-1	Pressure Retaining Welds in Valve Bodies	N/A	N/A	N/A	Yes	
B-M-2	Valve Body > 4 in. Nominal Pipe Size	9	4 Note (7)	100.00%	Yes	
B-N-1	Interior of Reactor Vessel	3	3	100.00%	No	
B-N-2	Welded Core Support Structures and Interior Attachments to Reactor Vessel	2	2	100.00%	Yes	
B-N-3	Removable Core Support Structures	1	1	100.00%	Yes	
B-O	Pressure Retaining Welds in Control Rod Housings	3	3	100.00%	Yes	
B-P	All Pressure Retaining Components	REREFERENCE SECTION 6.0 OF THIS REPORT				
B-Q	Steam Generator Tubing	Note (3)				
F-A	Class 1 Component Supports	58	58	100.00%	No	
F1.10.						

Class 2 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed
C-A	Pressure Retaining Welds in Pressure Vessels	30	30	100.00% Note (4)
C-B	Pressure Retaining Nozzle Welds in Vessels	11	11	100.00%
c-c	Welded Attachments for Vessels, Piping, Pumps and Valves	17	17	100.00%
C-D	Pressure Retaining Bolting Greater Than 2" in Diameter	N/A	N/A	N/A
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	Reference Risk Informed Program R-A Items	N/A	Note (2)
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	Reference Risk Informed Program R-A Items	N/A	Note (2)
C-G	Pressure Retaining Welds in Pumps and Valves	8	8	100.00%
С-Н	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT		OF THIS
F-A F1.20.	Class 2 Component Supports	236	236	100.00%

Additional Component Support Examinations Class 1, 2 and 3

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed
F-A F1.40.	Supports other than Piping Supports Class 1, 2 & 3	42	42	100.00%
F-A F1.50.	Component Supports Snubbers Class 1, 2 & 3	N/A	N/A	Note (5)

Risk Informed Inservice Inspection Program Class 1 and 2

Examination	Description	Inspections	Inspections	Percentage	Deferral
Category		Required	Completed	Completed	Allowed
R-A Note (2)	Piping Examinations Class 1 and 2	151	151	100.00%	No

Weld Overlay Section XI Appendix Q

Examination	Description	Inspections	Inspections	Percentage
Category		Required	Completed	Completed
Q1.1	Weld Overlay	No exams Outage 7 EOC 22		

Augmented / Elective Inspections

Summary Number	Description	Percentage Complete
G1.1	Reactor Coolant Pump Flywheels	No examinations required for Outage 7 / EOC 22
G2.1	RPV Closure Head Studs and Nuts per Nuclear Guide 1.65	No examinations required for Outage 7 / EOC 22
G3.1	Pipe Rupture Protection	100% of Outage 7 / EOC 22 Requirements Met
G5.1	RPV Head Penetration Nozzles	No examinations required for Outage 7 / EOC 22
G5.2	RPV Vent Line	No examinations required for Outage 7 / EOC 22
G6.2	Pressurizer Manway	100% of Outage 7 / EOC 22 Requirements Met
G10.1	Auxiliary Head Adapter Welds per Code Case N-770-1	No examinations required for Outage 7 / EOC 22
G13.1	ERPI MRP-146 Examinations	100% of Outage 7 / EOC 22 Requirements Met
B15.80	Reactor Vessel BMI Nozzles	100% of Outage 7 / EOC 22 Requirements Met
B4.10	Reactor Vessel Head Bare Metal Visuals	100% of Outage 7 / EOC 22 Requirements Met
B4.20	Reactor Vessel Head Pen and Reactor Vessel Head Vent	No examinations required for Outage 7 / EOC 22
H1.1	RPV Head to UHI Head Adapters	No examinations required for Outage 7 / EOC 22

Notes:

- (1) Deferral of inspection to the end of the interval as allowed by ASME Section XI Table IWB 2500-1. These examination categories are exempt from percentage requirements per IWB-2412 (a), Inspection Program B.
- (2) Relief Request 01-005 Risk Informed Program
- (3) Steam Generator Tubing is examined and documented by the Steam Generator Maintenance and Engineering Group as required by the Station Technical Specifications and is not included in this report.
- (4) Code Case N-706 has been incorporated for Category C-A. This code case covers the examinations associated with the Regenerative and Residual Heat Removal Heat Exchangers.
- (5) Relief Request 03-002 Snubber Program (SLC 16.9.15)
- (6) No Reactor Coolant Pumps were disassembled In the 3rd Inspection Interval, therefore no inspections were performed.
- (7) There are nine total valve groups. Only valves in four of the nine groups were disassembled in the 3rd Inspection Interval, therefore the required examinations were performed.
- (8) Relief Request 11-MN-002 To extend the Inservice Inspection Interval for the Reactor Vessel Examination Category B-A and B-D Welds.

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SECTION 3

3.0 Final Inservice Inspection Plan

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

DUKE ENERGY NUCLEAR TECHNICAL SERVICES Inservice Inspection Database Management System Plan Report

ScheduleWorks

McGuire 2, 3rd Interval, Outage (EOC-22)

This report includes all changes through addendum 2MNS-099

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

Inconel Transition Weld to Stainless Steel Tube

MP\0\A\7150-165

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

Beginning with 2EOC21, bare metal visual examination by a qualified VT-2 inspector of all the BMI nozzles per the requirements of ASME Code Case N-722-1. The bere 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 CAlf8 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 Nozzies 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 EQC-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) nozzies and transition welds will be examined every refueling outage instead of every other outage outlined in ER-MNS-09-01.

This report includes all changes through addendum 2MNS-099

McGuire 2, 3rd Interval, outage (EOC-22)

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/HPS	Cal Blocks	Componenet ID 2
Category AUG					···				
M2.B4.10.0002	2RPV-Head-Ma								
	Class 1 NC	MC-ISIN4-2553-01.00 MCM 2201.01-0021 001	NDE-70	VT-2	CS-Inconel				-
			RV Closure H	lead					
				h refueling o	outage that Ite			ormed. Last exam for thuring plan developemen	his item was EOC22. Will schedule nt for 4th interval.
			continued ser refueling outa under the insi less than 8, ti	g outage that vice have be ige or 5 cales ulation throughe next full b	it the full bare een detected, t ndar years, wh gh multiple ac are metal visu	the reexami nichever is l cess points al will be du	nation frequency ess, provided an in outages that the in 2EOC20. The	of the full bare metal vi IWA- 2212 VT-2 visual ne full bare metal VE is herefore, IWA-2212 VT	EDY <8 and no flaws unacceptable for isual may be extended to every third examination of the head is performed not completed. Provided EDY remains 7-2 visuals shall be performed in DY Calculation will continue to be
			updated and i per CC N-729 lengthened. I Services Sec- conditions in corrosion, box	if EDY great 3-1 will be rei For additiona tion, Nuclear 10CFR 50.5 ric acid depo	er than or equi quired every n al information i r Technical Se 5a (g)(6)(II)(D) isits, discolora	al to 8 these efueling out reference Q rvices Divis (2) through tion, and of	e IWA-2212 VT-2 age. Schedule FI A-513J (ER-MNS Ion. Acceptance (6). Relevant co her evidence of n	visuals will no longer to exhibility: Time between i-09-05) or contact Rac- criteria specified in AS additions for the purpose	ake place, because a bare metal visual in inspections may be shortened, but not that Doss in the Materials and NDE iME Code Case N-729-1 subject to be of the VE shall include areas of licensee implements this requirement,
M2 G13 1 0001	Cold Leg 2D N	nozia 4.1	updated and i per CC N-729 lengthened. I Services Sec- conditions in corrosion, box	if EDY great 3-1 will be rei For additiona tion, Nuclear 10CFR 50.5 ric acid depo	er than or equi quired every n al information i r Technical Se 5a (g)(6)(II)(D) isits, discolora	al to 8 these efueling out reference Q rvices Divis (2) through tion, and of	e IWA-2212 VT-2 age. Schedule FI A-513J (ER-MNS Ion. Acceptance (6). Relevant co her evidence of n	visuals will no longer to exhibility: Time between i-09-05) or contact Rac criteria specified in AS nditions for the purpose ozzle leakage. Once a	ake place, because a bare metal visual in inspections may be shortened, but not thei Doss in the Materials and NDE IME Code Case N-729-1 subject to e of the VE shall include areas of ficensee implements this requirement,
M2.G13.1.0001	Cold Leg 2D No Class 1 NC	0zzłe 4-1 MC-ISIN4-2553-01.00 MCFI-2NC-045 2NCP 82	updated and i per CC N-729 lengthened. I Services Sec- conditions in corrosion, box	if EDY great 3-1 will be rei For additiona tion, Nuclear 10CFR 50.5 ric acid depo	er than or equi quired every n al information i r Technical Se 5a (g)(6)(II)(D) isits, discolora	al to 8 these efueling out reference Q rvices Divis (2) through tion, and of	e IWA-2212 VT-2 age. Schedule FI A-513J (ER-MNS Ion. Acceptance (6). Relevant co her evidence of n	visuals will no longer to exhibility: Time between 109-05) or contact Rac criteria specified in AS nditions for the purpose ozzle leakage. Once a smed to be withdrawn.	ake place, because a bare metal visual in inspections may be shortened, but not that Doss in the Materials and NDE iME Code Case N-729-1 subject to be of the VE shall include areas of licensee implements this requirement,
M2.G13.1.0001	•	MC-ISIN4-2553-01.00 MCFI-2NC-045	updated and i per CC N-729 lengthened. I Services Sec conditions in corrosion, bot the First Revi	if EDY great 9-1 will be rei For additiona tion, Nuclear 10CFR 50.50 ric acid depo sed NRC On	er than or equi quired every mail information or Technical Se 5a (g)(6)(II)(D) isits, discolora der EA-03-00	al to 8 these efueling out reference Q ruces Divis (2) through tion, and of 9 no longer	e IWA-2212 VT-2 age. Schedule FI A-513J (ER-MNS ion. Acceptance (6). Retevant co her evidence of n applies and is de	visuals will no longer to exhibility: Time between 109-05) or contact Rac criteria specified in AS nditions for the purpose ozzle leakage. Once a smed to be withdrawn.	ake place, because a bare metal visual in inspections may be shortened, but not thei Doss in the Materials and NDE IME Code Case N-729-1 subject to e of the VE shall include areas of ficensee implements this requirement,
M2.G13.1.0001	•	MC-ISIN4-2553-01.00 MCFI-2NC-045	updated and i per CC N-729 lengthened. Services Sec conditions in corrosion, bot the First Review NDE-895 Nozzle to Pip This examina requirements details of the The area to be examination to the bottom of outage starting	if EDY greats 1-1 will be rei For additionation, Nuclear 10CFR 50.52 ric acid deposed NIRC On UT e tion is added of EPRI Me re examined to be perform the 1-1/2" Big with M2EC	er than or equiquired every mail information in Technical Se 5a (g)(6)(I)(D) isits, discolora der EA-03-00 SS SS di per QA-513J [P-146, Red. Perior in the 1-1/2" Ened will cover loron Injection	al to 8 these efueling out reference Q ruces Divis (2) through tion, and of no longer 160 Form initia form a volv loron injecti an approxim Line for a le fe of the pla	e IWA-2212 VT-2 age. Schedule FI A-513J (ER-MNS ion. Acceptance (6). Refevant co her evidence of n applies and is de 0.281 / 1.500 ted by Greg Ship whose QA Tracking on Line from the histely 1" wide ba ength of 6.75" tow ant. For additiona	visuals will no longer to tendbility: Time between 109-05) or contact Rac criteria specified in AS inditions for the purpose ozzle leakage. Once a smed to be withdrawn. 50202 Solve of the McGuire Civil of the McGuire	ake place, because a bare metal visual in inspections may be shortened, but not thei Doss in the Materials and NDE IME Code Case N-729-1 subject to e of the VE shall include areas of ficensee implements this requirement,
M2.G13.1.0001	•	MC-ISIN4-2553-01.00 MCFI-2NC-045	updated and i per CC N-729 lengthened. Services Sec conditions in corrosion, bot the First Review NDE-895 Nozzle to Pip This examina requirements details of the The area to be examination to the bottom of outage starting	if EDY greats 1-1 will be rei For additionation, Nuclear 10CFR 50.52 ric acid deposed NIRC On UT e tion is added of EPRI Me re examined to be perform the 1-1/2" Big with M2EC	er than or equiquired every mai information in Technical Se 5a (g)(6)(I)(D) isits, discolora der EA-03-00 SS SS in the 1-1/2" E med will cover loron injection DC21 for the li	al to 8 these efueling out reference Q ruces Divis (2) through tion, and of no longer 160 Form initia form a volv loron injecti an approxim Line for a le fe of the pla	e IWA-2212 VT-2 age. Schedule FI A-513J (ER-MNS ion. Acceptance (6). Refevant co her evidence of n applies and is de 0.281 / 1.500 ted by Greg Ship whose QA Tracking on Line from the histely 1" wide ba ength of 6.75" tow ant. For additiona	visuals will no longer to tendbility: Time between 109-05) or contact Rac criteria specified in AS inditions for the purpose ozzle leakage. Once a smed to be withdrawn. 50202 Solve of the McGuire Civil of the McGuire	ake place, because a bare metal visual in inspections may be shortened, but not thei Doss in the Materials and NDE life Code Case N-729-1 subject to e of the VE shall include areas of licensee implements this requirement, Risk Segment NC-02 Risk Segment NC-02 Code Case N-729-1 subject to e of the VE shall include areas of licensee implements this requirement, Risk Segment NC-02 Code Case N-729-1 subject to e of the VE shall include areas of licensee implements this requirement, Risk Segment NC-02 Code Case N-729-1 subject to e of the VE shall include areas of licensee implements this requirement, Risk Segment NC-02 Risk Segment NC-02 Code Case N-729-1 subject to e of the VE shall include areas of licensee implements this requirement, Risk Segment NC-02 Code Case N-729-1 subject to e of the VE shall include areas of licensee implements this requirement,

Summary Num	Component li Class / System	- · · · · · · · · · · · · · · · · · · ·	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2	
Category AUG										
M2.G13.1.0003	Cold Leg 2D N	lozzie 4-5								
M2.G13. I.UU3	Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-028 2NCP 32/2NCP 28	NDE-995	UT	SS	160	0.438 / 3.000	50225		
		•	Elbow to Pipe	•						
			requirements details of the cracking. The UT examinati tangent plane Subassembly	of EPRI MR areas to be e area to be ions to be pe b, and the elb / 2NCP28/2N	P-146, Revisiexamined Pe examined is the examined will comed will come sow bend base ICP32). This	on 1. Refer Inform a volue 3" Alt. Cl over butt Wo metal usin exam is to t	rence QA Trackin umetric (UT) examinating Line from eld No. NC2FW2 og the bottom of to be performed eve	ig Number ER-MNS-1 mination of the base in the RCS Cold Leg 2 16-7, the base metal a the horizontal pipe to it ery outage starting with	vil Design/DB Group to meet the 12-04 (QA-513J with Attachment A) for metal and weld to detect thermal fatigue D Nozzle 4-5 toward Valve 2N/V018. The k the bottom of the pipe 13.5" from the indicate how far to examine (Reference in M2EOC21 for the life of the plant. For mence PIP M-09-0217, Action No. 9.	
Circumferental										
M2.G13.1.0004	Cold Leg 2A N	lozzie 1-3								
	Class 1 NC	MC-ISIN4-2553-01.00 MCFI-2NC-026 2NCP 30	NDE-995	υT	SS	160	0.438 / 3.000	50225		

Elbow to Pipe

This examination is added per QA-513J Form initiated by Greg Shipley of the McGuire Civil Design/DB Group to meet the requirements of EPRI MRP-146, Revision 1. Reference QA Tracking Number ER-MNS-12-05 (QA-513J with Attachment A) for details of the areas to be examined. Perform a volumetric (UT) examination of the base metal and welds to detect thermal fatigue cracking. The area to be examined is the 3" Charging Line from the RCS Cold Leg 2A Nozzie 1-3 toward Valve 2NV0015. The UT examination to be performed will cover but Weld Nos. NC2FW26-10 and NC2FW26-3, the base metal at the bottom of the pipe beginning at Weld No. NC2FW26-3 and running a total length of 13.5" toward Valve 2NV0015 (Reference Subassembly 2NCP-30), and the elbow base metal down to in line with the bottom of horizontal pipe to Weld No. NC2FW26-3. This exam is to be performed every outage starting with M2EOC21 for the life of the plant. For additional information contact Greg Shipley of the McGuire Civil Design/DB Group. Reference PIP M-09-0217, Action No. 9.

This report includes all changes through addendum 2MNS-099

McGuire 2, 3rd Interval, outage (EOC-22)

W22-11 NC M	CFI-2NC22 IC-ISIN4-2553-01.00 ICFI-2NC22	NDE-35 Pipe to Elbow Pipe Rupture		SS Reference Doo	140 nument SR	1.000 / 10.000 G-78-001 REV.2 (DISTRIBUTION CODE MADM	G03.001.006, G03.001.006A 4-257).
W22-11 NC M	C-ISIN4-2553-01.00	Pipe to Elbow	,				DISTRIBUTION CODE MADM	G03.001.006A
W22-11 NC M		•		Reference Doo	ximent SR(3-78-001 REV.2 (I	DISTRIBUTION CODE MADM	
NC M	ICFI-2NC22	•		Reference Doo	zument SRC	G-78-001 REV.2 (I	DISTRIBUTION CODE MADM	l-257).
NC M	ICFI-2NC22	Pipe Rupture	Protection. F	Reference Doo	zument SR(G-78-001 REV.2 (I	DISTRIBUTION CODE MADM	1-257).
NC M	ICFI-2NC22							
NC M	CFI-2NC22		 					
	ICFI-2NC22							
M		PDI-UT-2	ហ	SS	140	1.000 / 10.000	PDI-UT-2-M1	G03.001.006, G03.001.006A
	C-ISIN4-2553-01.00							
		Pipe to Elbow	,				PDI-UT-2A-M	
		Pipe Rupture	Protection. F	Reference Doo	cument SR	3-78-001 REV.2 (DISTRIBUTION CODE MADM	l-257).
Manway								
NC M	ICM 1201.01-140	NDE-68	VT-2					
			•					
		Pressurtzer M Individual, con	lanway Cove	r and Manway Luping, Alloy 6	y for eviden 300 Engines	ce of diaphram pla or Nuclear Technic	ate seal weld leakage. Examino al Services). ER-MNS-07-02	e every outage. (For responsible used to install in plan.
								
MW-Y1-X1								W
		NDE-62	VT-1	CS		2.500 / NA		B06.110.001
		•		PRIMARY IN	RET MANV	VAY NUTS. 20 NI	ITS. Y1-X1 QUADRANT. Shu	d Length = 26.625
M	NC M	NC MCM 1201.01-140	Pipe Rupture Pressurizer M Pressurizer M Pressurizer M Pressurizer M Individual, con Reference EL W-Y1-X1 NC MCM 2201.01-0126 NDE-62 MCM 2201.01-0172 SG Mernway I	Pipe Rupture Protection. R anway NC MCM 1201.01-140 NDE-68 VT-2 Pressurizer Manway Pressurizer Manway Diaph Pressurizer Manway Cove Individual, contact J.M. Sh Reference ELL for Duke R W-Y1-X1 NC MCM 2201.01-0126 MCM 2201.01-0172 SG Manway Nuts	Pipe Rupture Protection. Reference Doc anway NC MCM 1201.01-140 NDE-68 VT-2 Pressurizer Manway Pressurizer Manway Diaphram Seal We Pressurizer Manway Cover and Manway Individual, contact J.M. Shuping, Alloy 6 Reference ELL for Duke Response to N W-Y1-X1 NC MCM 2201.01-0126 MCM 2201.01-0172 SG Manway Nuts	Pipe Rupture Protection. Reference Document SRI anway NC MCM 1201.01-140 NDE-68 VT-2 Pressurizer Manway Pressurizer Manway Diaphram Seal Weld. Bare M Pressurizer Manway Cover and Manway for eviden Individual, contact J.M. Shuping, Alloy 600 Enginer Reference ELL for Duke Response to NRC for com W-Y1-X1 NC MCM 2201.01-0126 NDE-62 VT-1 CS MCM 2201.01-0172 SG Manway Nuts	Pipe Rupture Protection. Reference Document SRG-78-001 REV.2 (artway NC MCM 1201.01-140 NDE-68 VT-2 Pressurizer Manway Pressurizer Manway Diaphram Seal Weld. Bare Metal Visual Exam Pressurizer Manway Cover and Manway for evidence of diaphram pl Individual, contact J.M. Shuping, Alloy 600 Engineer Nuclear Technic Reference ELL for Duke Response to NRC for commitment to NRC I W-Y1-X1 NC MCM 2201.01-0126 NDE-62 VT-1 CS 2.500 / NA MCM 2201.01-0172 SG Manway Nuts	Pipe Rupture Protection. Reference Document SRG-78-001 REV.2 (DISTRIBUTION CODE MADM Pipe Rupture Protection. Reference Document SRG-78-001 REV.2 (DISTRIBUTION CODE MADM NC MCM 1201.01-140 NDE-68 VT-2 Pressurizer Manway Pressurizer Manway Pressurizer Manway Diaphram Seal Weld. Bare Metal Visual Exam by VT-2 qualified Inspector. E Pressurizer Manway Cover and Manway for evidence of diaphram plate seal weld leakage. Examin Individual, contact J.M. Shuping, Alloy 600 Engineer Nuclear Technical Services). ER-MNS-07-02 Reference ELL for Duke Response to NRC for commitment to NRC Bulletin 2004-01. Letted dated W-Y1-X1 NC MCM 2201.01-0126 NDE-62 VT-1 CS 2.500 / NA MCM 2201.01-0172

Summary Num Category B-G-1	Component ID Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Comp	oonenst ID 2
M2.B6.110.0002	2SGA-MW-X1-Y	MCM 2201.01-0126	NDE-62	VT-1	cs		2.500 / NA			B06.110.002
		MCM 2201.01-0172	SG Manway I STEAM GEN		PRIMARY O	UTLET MAN	IWAY NUTS. 20	NUTS X1-Y2 QUADRA	NT. Stud Length = 26.625	
M2.B6.110.0007	2SGD-MW-Y1-7 Class 1 NC	K2 MCM 2201.01-0127	NDE-62	VT-1	cs		2.500 / NA			806.110.007
		MCM 2201.01-0172	SG Manway i	Mula						
			=		PRIMARY IN	LET MANW	/AY NUTS. 20 Ni	uts. Y1-X2 Quadran	VT. Stud Length = 26.625	
M2.B6.110.0008	2SGD-MW-X2-1 Class 1 NC	MCM 2201.01-0127	NDE-62	VT-1	cs		2.500 / NA			B06.110.008
		MCM 2201.01-0172	SG Manway I STEAM GEN		PRIMARY O	UTLET MAN	WAY NUTS. 20	NUTS. X2-Y2 QUADR	ANT. Stud Length = 26.62	5
M2.B6.180.0004	2RCP-2D-F							,		
	Class 1 NC	MCM 1201.01-120 MCM 2201.01-084	PDI-UT-5	UT	CS		4.500 / NA	13C-010		B06.180.004
			RC Main Flar	nge Bolting						
			REACTOR C Comment ad Length of bot	ded per 2MN		FLANGE B	OLTING. 24 BOL	.TS.		
			Comments a	dded per Plar	n Addendum :	2MNS-088: 1	Reference PIP N	o. M-12-08714, Action N	No. 1.	
Printed 07/16/14 jec59	08 v 06/18/09				SDC	A Cet "C"		McGaire	2 7/16/2014 6:19:47 PM	Page 5 of 29

Summary Num	Compor Class / S			Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category B-G-2										
M2.B7.70.0009	2NI-129									
	Class 1	Ni	MCFI-2NI26	NDE-62	VT-1	SS		1.875 / NA		807.070.003B, 807.070.007B
			MC-ISIN4-2562-03.00 MCM 1205.00-0006							331.073.33.2
				Valve Balting						
				GROUP 6. 8"1 129.	WALWORTI	I CHECK V	alve. Inspec	T ONE OF TH	E FOLLOWING VA	LVES IN GROUP 6: 2NI-125 AND 2NI-
M2.B7.70.0012	2NI-180					·				
	Class 1	NI	MCFI-2NI15	NDE-62	VT-1	SS		1.250 / NA		B07.070.004C, B07.070.008C
			MC-ISIN4-2562-03.01 MCM 1205.36-0028							297.070.0000
				Valve Bolting GROUP 8. 6" 1	WESTINGH	OUSE SWII	NG CHECK VAL	.ve. inspect	THE FOLLOWING	S VALVE IN GROUP 8: 2NI-180.
M2.B7.70.0023	2NI-70									
	Class 1	NI	MCFI-2NI18	NDE-62	VT-1	88		1.875 / NA		807.070.002A, 807.070.006A
			MC-ISIN4-2562-02.00 MCM 1205.00-0009 001, 003							
				Valve Boiting						
				GROUP 5. 10*81, AND 2NI-9		MORRILL (CHECK VALVE.	INSPECT ON	IE OF THE FOLLOW	WING VALVES IN GROUP 5: 2NI-70, 2NI-
	<u></u>			÷						

Summary Num	Component ID Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category C-A			•						
M2.C1.20.0001	2SGC-W144								
	Class 2 SM	MCM 2201.01-0207	NDE-640	UT	CS	•	4.125 / NA	5139385	C01.020.001, C01.020.003
		MC-ISIN4-2591-01.01 MCM 2201.01-0126							221021
			Steam Drum						
Circumferential									
M2.C1.20.0001	2SGC-W144								
	Class 2 SM	MCM 2201.01-0207	NDE-820	υr	cs		4.125 / NA	5139385	C01.020.001, C01.020.003
		MC-ISIN4-2591-01.01 MCM 2201.01-0126							•••••
			Steam Drum (STEAM GEN						
Circumferential									
M2.C1.20.0025	2RCHPA-10-1								
	Class 2 NV	MCM 1201.04-197 MC-ISIN4-2554-03.00	NDE-3630	υτ	SS		0.495 / 6.660	50319	C01.020.080
			SHELL to HE	AD					
							TOR. Thickness ant will be neede		could not be verified. If actual thickness
Circumferential									

This report includes all changes through addendum 2MNS-099

McGuire 2, 3rd Interval, outage (EOC-22)

Summary Num	Component ID Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-B							~~ ~~ · · · · · · · · · · · · · · · · ·		
M2.C2.31.0007	2RHRHX-2A-IN	ILET							
	Class 2 ND	MCM 1201.06-22 MC-ISIN4-2561-01.00	NDE-35	PT	SS		0.750 / NA		C02.031.001
			Reinforcing P	ads to Nozzk	e/Shell				
			Please Note:	Material to be	e verified pric	r schedule a	and exam		
Circumferential									
M2.C2.31.0008	2RHRHX-2A-O	UTLET							
	Class 2 NiD	MCM 1201.06-22 MC-ISIN4-2561-01.00	NDE-35	PT	SS		0.750 / NA		C02.031.002
			Reinforcing P	ads to Nozzk	e/Shelf				
			Please Note:	Material to be	e verified pric	r schedule (and exam		
Circumferential			٠.						
Category C-C									
M2.C3.20.0024	2MCA-NI-5048	-	···········						
	Class 2 Ni	MCSRD-2NI-350/sht. 3 MC-ISIN4-2562-03.00 2MCA-NI-5048	NDE-35	PT	UNK	80	0.125 / 4.000		C03.020.032
			Protection Sa	addle to Pipe	Weld				
							0.182A. Thicknes kness is referenc		led. If actual thickness (NPS) is
Rigid Support									

Summary Num	Component ID Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	4 000	ponenet ID 2
Category C-G										
M2.C8.20.0052	2CF0126B-1									
	Class 2 CF	MCM 1205.00-0989 MC-ISIN4-2591-01.01	NDE-25	MT	CS		1.165 / NA			C06.020.002
			Valve Body T	=				_		
			ITEM # 6J-02	6. INSPECT	ONE VALVE	IN THIS GF	ROUP (2A-2D) PE	R INTERVAL. Valve is 6	"Nominal Pipe Size.	
Circumferential										
Category D-A										
M2.D1.10.0017	2VGTK-SUPP(
	Class 3 VG	MCM 1301.00-80 MC-ISIN4-2609-04.00	NDE-65	VT-1	NA		0.312 / 0.000			D01.010.00
			Rigid Restrair	rŧ						
								T. WELDED ATTACHME	NT. INSPECT WITH FO	.040.0288.
			Additional ex	em added Ou	tage 2 per Pl	P M-06-299	5.			
Rigid Restraint			Additional ex	em added Ou	tage 2 per Pl	P M-06-299	5.			
Rigid Restraint M2.D1.20.0004	2MCA-SA-5075	5	Additional ex	am added Ou	tage 2 per Pl	P M-06-299	5.			
	2MCA-SA-5079 Class 3 SA	5 MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02 2MCA-SA-5075	Additional eq	VT-1	tage 2 per Pl	80	0.218 / 6.000			D01.020.02
		MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02		VT-1	-					D01.020.02
		MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02	NDE-65 Attachment to	VT-1	UNK	80	0.218 / 6.000	CT WITH F01.030.201A		D01.020.02 1
		MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02	NDE-65 Attachment to	VT-1	UNK	80	0.218 / 6.000	CT WITH F01.030.201A		D01.020.02
M2.D1.20.0004		MCSRD-2SA-350/sht. 1 MC-ISINA-2593-01.02 2MCA-SA-5075	NDE-65 Attachment to	VT-1	UNK	80	0.218 / 6.000	CT WITH F01.030.201A		D01.020.02
M2.D1.20.0004 Rigid Support	Class 3 SA	MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02 2MCA-SA-5075 01 MCSRD-2WN-350/sht. 2 MC-ISIN4-2609-07.00	NDE-65 Attachment to	VT-1	UNK	80	0.218 / 6.000	CT WITH F01.030.201A		
M2.D1.20.0004 Rigid Support	Class 3 SA ZMCA-WN-510	MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02 2MCA-SA-5075	NDE-65 Attachment to	VT-1 Pipe Weld VAS INSPECT	UNIK TED IN CLAS	80	0.218 / 6.000 TERVAL. INSPEC	CT WITH F01.030.201A		
M2.D1.20.0004 Rigid Support	Class 3 SA ZMCA-WN-510	MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02 2MCA-SA-5075 01 MCSRD-2WN-350/sht. 2 MC-ISIN4-2609-07.00	NDE-65 Attachment to THIS ITEM VI	VT-1 Pipe Weld VAS INSPECT	UNIK TED IN CLAS	80	0.218 / 6.000 TERVAL. INSPEC	CT WITH F01.030.201A		
M2.D1.20.0004 Rigid Support	Class 3 SA ZMCA-WN-510	MCSRD-2SA-350/sht. 1 MC-ISIN4-2593-01.02 2MCA-SA-5075 01 MCSRD-2WN-350/sht. 2 MC-ISIN4-2609-07.00	NDE-65 Attachment to THIS ITEM VI	VT-1 Pipe Weld VAS INSPECT	UNIK TED IN CLAS	80	0.218 / 6.000 TERVAL. INSPEC	CT WITH F01.030.201A		D01.020.021

This report includes all changes through addendum 2MNS-099

McGuire 2, 3rd Interval, outage (EOC-22)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A									
M2.F1.10.0118	2MCR-NI-4527 Class 1 NI I	MCSRD-2NI-201/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.010.090A, F01.010.6118
Rigid Support									
M2.F1.10.0167	2MCR-NV-4318	MCSRD-2NV-208/sht. 1	NDE-66	VT-3	NA NA		NA / 2.000		F01.010.112A
	Cass i NV i		Rigid Support		NA		NA / 2.000		F01.010.6213
Rigid Support									
M2.F1.10.0177	2MCR-NV-4381 Class 1 NV I	MCSRD-2NV-209/sht. 1	NDE-66	VT-3	NA NA		NA / 1.500		F01.010.113A,
			Rigid Support						F01.010.6232
Rigid Support									
M2.F1.20.0009	2MCA-CA-H145								
	Class 2 CA	MCSRD-2CAP/sht. 1	NDE-66	VT-3	NA		NA / 6.000		F01.020.009A, F01.020.009B
Rigid Support									

Summary Num	Component ID ISO/DWG Numbers Class / System	Description	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
0.4		Comments						
Category F-A								
M2.F1.20.0010	2MCA-CA-H141							
	Class 2 CA MCSRD-2CAP/sht. 1	NDE-66 Spring Hgr	VT-3	NA		NA / 6.000		F01.020.0100
Spring Hgr								
M2.F1.20.0011	2MCA-CA-H134							
	Class 2 CA MCSRD-2CAP/sht. 1	NDE-66 Rigid Support	VT-3	NA		NA / 6.000		F01.020.011A
Rigid Support								
M2.F1.20.0038	2MCA-ND-5482							
	Class 2 ND MCSRD-2FW-350/sht. 5	NDE-66	V7-3	NA		NA / 14.000		F01.020.106C
Mech Snuibber								
M2.F1.20.0041	2MCA-ND-6127	-						
	Class 2 ND MCSRD-2ND-350/sht. 2	NDE-66 Rigid Restrain	VT-3 ŧ	NA		NA / 8.000		F01.020.109B
Rigid Restraint								

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	School Thick/	NPS Cal Blocks	Component ID 2
Category F-A	2104 17 210						
M2.F1.20.0042	2MCA-ND-6130 Class 2 ND MCSRD-2ND-350/sht. 2	NDE-66 Rigid Restrain	VT-3 It	NA ·	NA / 8.	000	F01,020.110B
Rigid Restraint							
M2.F1.20.0045	2MCA-ND-6220						
11211	Class 2 ND MCSRD-2ND-350/sht. 3	NDE-68	VT-3	NA	NA / 8.	000	F01.020.113A
Rigid Support							
M2.F1.20.0046	2MCA-ND-6280						
	Class 2 ND MCSRD-2ND-350/sht. 3	NDE-66 Hyd Snubber	VT-3	NA	NA / 8.	000	F01.020.114C
Hyd Snubber							
M2.F1.20.0047	2MCA-ND-5502						
	Class 2 ND MCSRD-2ND-350/sht. 3	NDE-66	VT-3	UNK	0.125 / 1	3.000	F01.020.115A
	·	Thickness is r	eference dir	nension only			
Rigid Support							

Summary Num Category F-A	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched Thick/NPS	Cal Blocks	Component iD 2
M2.F1.20.0050	2MCA-ND-5503						
M2.71.20.0000	Class 2 ND MCSRD-2ND-350/sht. 3	NDE-66	VT-3	NA	NA / 8.000		F01.020.118B, F01.020.6505, F01.020.6506
Rigid Restraint							
M2.F1.20.0052	2MCA-ND-6210						
	Class 2 ND MCSRD-2ND-350/sht. 6	NDE-66 Rigid Restrair	VT-3 nt	NA	NA / 8.000		F01.020.120B
Rigid Restraint							
M2.F1.20.0055	2MCA-ND-6009				NA 40 000		504 500 4000
	Class 2 ND MCSRD-2ND-362/sht. 2	NDE-66 Spring Hgr	VT-3	NA	NA / 8.000		F01.020.123C
Spring Hgr							
M2.F1.20.0056	2MCA-ND-6003			10			
	Class 2 ND MCSRD-2ND-362/sht. 2	NDE-66 Rigid Restrain Thickness is:		UNK mension only	0.125 / 8.000		F01.020.124B
Rigid Restraint							

Summary Num Category F-A	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenst ID 2
M2.F1.20.0057	2MCA-NI-7004 Class 2 Ni I	MCSRD-2FW-350/sht. 3	NDE-66 Spring Hgr	VT-3	NA		NA / 18.000		F01.020.150C, F01.020.177C
Spring Hgr									
M2.F1.20.0058	2MCA-NI-7003 Class 2 Ni I	MCSRD-2FW-350/sht. 4	NDE-66 Spring Hgr	VT-3	NA		NA / 18.000		F01.020.151C
Spring Hgr									
M2.F1.20.0141	2MCA-NV-5013 Class 2 NV	MCSRD-2NV-350/sht. 2	NDE-66 Mech Snubber	VT-3	NA.		NA / 3.000		F01.020.281C
Mech Snubber									
M2.F1.20.0142	2MCA-NV-5007 Class 2 NV	MCSRD-2NV-350/sht. 2	NDE-66 Spring Hgr	VT-3	NA		NA / 2.000		F01.020.282C
Spring Hgr									

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NP8	Cal Blocks	Componenet ID 2
Category F-A								
M2.F1.20.0143	2MCA-NV-5205 Class 2 NV MCSRD-2NV-351/sht. 1	NDE-66 Mech Snubbe	VT-3	NA		NA / 3.000		F01.020.283C
Mech Snubber								
M2.F1.20.0144	2MCA-NV-5104							F04 000 004D
Rigid Restraint	Class 2 NV MCSRD-2NV-351/sht. 2	NDE-66	VT-3	NA		NA / 3.000		F01.020.284B
M2.F1.20.0145	2MCA-NV-5225							
112.1	Class 2 NV MCSRD-2NV-351/sht. 2	NDE-66	VT-3	NA		NA / 3.000		F01.020.285A
Rigid Support								
M2.F1.20.0146	2MCA-NV-5216 Class 2 NV MCSRD-2NV-351/sht. 3	NDE-66	VT-3	NA NA		NA / 3.000		F01.020.286B
		Rigid Restrain						
Rigid Restraint								

Summary Num	Component iD Class / System	ISO/DWG Numbers	Procedure Description Comments	trisp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
M2.F1.20.0174	2MCA-SV-H53 Class 2 SV	MCSRD-2SVA/sht. 1	NDE-66 Hyd Snubber	VT-3	NA		NA / 6.000		F01.020.475C
Hyd Snubber									
M2.F1.20.0175	2MCA-SV-H55					Plant of Published State of the Total State of S			
	Class 2 SV	MCSRD-2SVA/sht. 1	NDE-66 Spring Hgr	VT-3	NA		NA / 6.000		F01.020.476C
Spring Hgr									
M2.F1.20.0180	2MCA-VQ-5017 Class 2 VO	7 MCSRD-2VQ-350/sht. 1	NDE-66	VT-3	NA NA		NA / 6.000		F01.020.504A
Rigid Support				., .					
M2.F1.20.0272	2MCA-ND-5017 Class 2 ND	7 MCSRD-2ND-350/sht. 7	NDE-66	VT-3	NA		NA / 8.000		F01.020.134A, F01.020.6450
			Rigid Support	t					
Rigid Support									
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Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	Insp Req	Material	Sched Thick/NPS	Cal Blocks	Componenet ID 2
2MCA-Ni-5048 Class 2 Ni MCSRD-2Ni-350/sht. 3	NDE-66	VT-3	UNK	0.125 / 4.000		F01.020.182A, F01.020.6711
	•		032. Thickne	ss is reference dimesion only		
2MCA-NV-5315						
Class 2 NV MCSRD-2NV-353/sht. 3	NDE-66	VT-3	NA	NA / 4.000		F01.020.304C, F01.020.7049
	Mec Snb/Spr	Hgr				
M-00 AN 5500						
	NDE-66	VT-3	NA	NA / 4.000		F01.020.303C, F01.020.7077
	Spring Hgr					
2MCA-NV-5615						
Class 2 NV MCSRD-2NV-356/sht. 1	NDE-66	VT-3	NA	NA / 6.000		F01.020.300A, F01.020.7104
	Rigid Suppor	t				
	2MCA-NI-5048 Class 2 NI MCSRD-2NI-350/sht. 3 2MCA-NV-5315 Class 2 NV MCSRD-2NV-353/sht. 3 2MCA-NV-5508 Class 2 NV MCSRD-2NV-353/sht. 2	2MCA-Ni-5048	Class / System Description Comments 2MCA-NI-5048 Class 2 NI MCSRD-2NI-350/sht. 3 NDE-66 VT-3 Rigid Support INSPECT WITH C03.020. 2MCA-NV-5315 Class 2 NV MCSRD-2NV-353/sht. 3 NDE-66 VT-3 Mec Snb/Spr Hgr 2MCA-NV-5508 Class 2 NV MCSRD-2NV-353/sht. 2 NDE-66 VT-3 Spring Hgr	Description Comments	Description Comments	2MCA-NI-5048

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Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched Thick/NPS	Cat Blocks	Component iD 2
Category F-A							
M2.F1.20.0624	2MCA-NV-5620						
	Class 2 NV MCSRD-2NV-356/sht. 1	NDE-66	VT-3	NA	NA / 3.000		F01.020.301A, F01.020.7107
		Rigid Support	l				
Rigid Support							
100 51 00 0010	-						
M2.F1.20.0648	2MCA-NV-5655 Class 2 NV MCSRD-2NV-356/sm. 4	NDE-66	VT-3	NA	NA / 4.000		F01.020.302A, F01.020.7150
		Rigid Support	t				, , , , , , , , , , , , , , , , , , , ,
Rigid Support							
M2.F1.20.1090	2MCR-SM-H82						
	Class 2 SM MCSRD-2SMA/Sht. 4	NDE-66	VT-3	UNK	NA / 34.000		F01.020.430C, F01.020.7955
		Spring Hgr					
		Support Draw	ring reveals	that Support is	s Accessible. Attachment info	needs to be varified in the field if required	
Spring Hgr							
M2.F1.20.1118	2MCR-WL-4068						
	Class 2 WL MCSRD-2WL-207/sht. 1	NDE-66	VT-3	NA	NA / 6.000		F01.020.526A, F01.020.8005
		Rigid Support	t				
Rigid Support							

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cai Blocks	Componenet ID 2
Category F-A			v					
M2.F1.30.0061	2MCA-RN-3205							
	Class 3 RN MCSRD-2RN-359/sht. 1	NDE-66	VT-3	NA		NA / 8.000		F01.030.168A
Rigid Support								
M2.F1.30.0063	2MCA-RN-3393							
	Class 3 RN MCSRD-2RN-364/sht. 1	NDE-66	VT-3	NA		NA / 8.000		F01.030.170A
Rigid Support								
M2.F1.30.0064	2MCA-RN-3115 Class 3 RN MCSRD-RN-156/sht. 1	NDE-66	VT-3	NA NA		NA / 36.000		F01.030.156B,
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,				F01.030.171B
		Rigid Restrali	nt					
Rigid Restraint								
M2.F1.30.0066	2MCA-SA-5086							
	Class 3 SA MCSRD-2SA-350/sht. 2	NDE-66	VT-3	NA		NA / 6.000		F01.030.200C
		Mec Snb/Spr	Hgr					
Mec Snb/Spr Hgr								

Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	ThickNPS	Cal Blocks	Component ID 2
Category F-A								
M2.F1.30.0067	2MCA-WN-5005 Class 3 WN MCSRD-2WN-350/sht. 1	NDE-66 Spring Hgr	VT-3	NA		NA / 6.000		F01.030.225C
Spring Hgr								
M2.F1.30.0068	2MCA-WN-5101				***************************************			
	Class 3 WN MCSRD-2WN-350/sht. 2	NDE-66	VT-3 ITH D01.020.	NA .031.		0.500 / 8.000		F01.030.226A, F01.030.226B
Rigid Restraint								
M2.F1.30.0411	2MCA-RN-3018 Class 3 RN MCSRD-2RN-351/sht. 1	NDE-66 Rigid Suppor	VT-3	NA		NA / 18.000		F01.030.159A, F01.030.8602
Rigid Support								
M2.F1.30.0418	2MCA-RN-3027 Class 3 RN MCSRD-2RN-351/sht. 1	NDE-66	VT-3	UNK	17.7	0.125 / 18.000		F01.030.179C,
		Spring Hgr Thickness is						F01.030.8615
Spring Hgr								

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Summary Num	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NP8	Cal Blocks	Component ID 2
Category F-A								
M2.F1.30.0421	2MCA-RN-3031 Class 3 RN MCSRD-2RN-351/sht. 1	NDE-66	VT-3	NA		NA / 20.000		F01.030.171A, F01.030.8620
		Rigid Support						
Rigid Support								
M2.F1.30.0423	2MCA-RN-3034							
	Class 3 RN MCSRD-2RN-351/sht. 1	NDE-66	VT-3	NA		NA / 30.000		F01.030.177A, F01.030.8623
		Rigid Support						
Rigid Support								
M2.F1.30.0426	2MCA-RN-3037							
	Class 3 RN MCSRD-2RN-351/sht. 3	NDE-66	VT-3	NA		NA / 18.000		F01.030.178A, F01.030.8628
		Rigid Support	1					
Rigid Support								
M2.F1.30.0463	2MCA-RN-3103 Class 3 RN MCSRD-RN-156/sht. 1	NDE-66	VT-3	NA NA		NA / 36.000		F01.030.176A,
		Rigid Support						F01.030.8705
Rigid Support								

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Summary Num Category F-A	Component ID ISO/DWG Numbers Class / System	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
M2.F1.30.0470	2MCA-RN-3116							
	Class 3 RN MCSRD-2RN-358/sht. 2	NDE-66	VT-3	NA		NA / 6.000		F01.030.166A, F01.030.8719
		Rigid Support						7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Rigid Support								
M2.F1.30.0509	2MCA-RN-3170							
THE HOUSE	Class 3 RN MCSRD-2RN-358/sht 1	NDE-66	VT-3	NA		NA / 10.000		F01.030.173A, F01.030.8799
		Rigid Support						1 01.000.0100
Rigid Support								
M2.F1.30.0525	2MCA-RN-3188							
	Class 3 RN MCSRD-2RN-359/sht 1	NDE-66	VT-3	NA		NA / 10.000		F01.030:174A, F01.030:8830
		Rigid Support						
Rigid Support								
M2.F1.30.0586	2MCA-RN-3330 Class 3 RN MCSRD-2RV-350/sht. 1	NDE-68	VT-3	NA NA		NA / 10.000		F01.030.175A,
	Class 3 KM modulery-conduct			TA .		10.000		F01.030.8950
		Rigid Support	1					
Rigid Support								

Summary Num Category F-A	Component ID Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cat Blocks	Component ID 2
M2.F1.30.0601	00.000 10.00								
M2.F1.30.0601	2MCA-WN-500 Class 3 WN	1 MCSRD-2WN-350/sht. 1	NDE-66	VT-3	NA		0.237 / 8.000		F01.030.228C, F01.030.8984
			Mech Snubbe	BF					
Mech Snubber									
M2.F1.30.0603	2MCA-WN-500	3							
		MCSRD-2WN-350/sht. 1	NDE-66	VT-3	NA		NA / 8.000		F01.030.227A, F01.030.8967
Rigid Support			•						
M2.F1.30.0651	2MCA-SA-5075	MCSRD-2SA-350/sht. 1	NDE-66	VT-3	UNK		0.218 / 6.000		F01,030,201A
	Class of CA	10010 10000112	Rigid Support	ŧ		SS B 2nd INT		CT WITH D01.020.021	, 01.355.25
Rigid Support									
M2.F1.40.0079	2CAPTD-SUPF	PORT							
		MCM 1201.05-0218 MC-ISIN4-2592-01.01	NDE-66	VT-3	UNK		NA/NA		F01.040.036B
			Rigid Restrain		R PUMP TUI	RBINE DRIV	EN SUPPORT.		
Rigid Restraint									

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Summary Num	Component III Class / System		Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category F-A			Comments						
M2.F1.40.0081	2LDST-SUPPO	RT-2A							
	Class 3 LD	MCM 1218.01-0036 MC-ISIN4-2609-02.00 MC-1687-1.6	NDE-66	VT-3	NA		NA / NA		F01.040.040B
			Rigid Restral	nt					
			DIESEL GEN	IERATOR LL	IBE OIL INTA	KE STRAIN	IER 2A SUPPORT	г.	
Rigid Restraint									
M2.F1.40.0111	2VGTK-SUPPO	ORT-2A1							
	Class 3 VG	MCM 1301.00-80 MC-ISIN4-2608-04.00	NDE-66	VT-3	NA		0.312 / 0.000		F01.040.0288
			Rigid Restrai	mt					
			DIESEL GEN	ERATOR ST	TARTING AIR	TANK 2A1	SUPPORT SKIRT	г.	
Rigid Restraint									
M2.F1.40.0112	2WNP-SUPPO	PT-293							
		MCM 1203.04-74 MC-ISIN4-2609-07.00 MC-1231-20	NDE-66	VT-3	NA		NA/NA		F01.040.029B
			Rigid Restrai	nt					
			DIESEL GEN	IERATOR SU	JMP PUMP 2	B3 SUPPO	RT.		
Rigid Restraint									
Category R-A									
M2.R1.11.0022	2NI2F-2								Risk Segment NI-042
	Class 2 NI	MCF1-2N101 MC-ISIN4-2562-03.00	PDI-UT-2	ហ	S \$	10	0.134 / 6.000	8279-0414	R01.011.062
			Tee to Pipe					PDI-UT-2-M1	
								PDI-UT-2A-M	
Circumferential									
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This report includes all changes through addendum 2MNS-099

			Afc	:Guire 2, 3rd	i interval, out	tage (EOC-	22)		
Summary Num	Component ID Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A						· · · · · · · · · · · · · · · · · · ·			D: 1 0 1 NO 00
M2.R1.11.0048	2NC2FW39-1 Class 1 NC	MCFI-2NC39 MC-ISIN4-2553-01.00	NDE-995	UT	SS	160	0.281 / 1.500	50202	Risk Segment NC-02 R01.011.01
			Pipe to Nozzi	e					
			Comments p	er Plan Adde -14572 and I	indum 2MNS- Relief Reques	-096: Added st 01-005 an	to the 2EOC22 E	ned in Outage 4 (EOC-19) xamination Schedule per a RAI, and SER on RRs 01-0	reference PIP G-08-0152. dditional examination requirements 05 and 01-008 pertaining to the
Circumferential									
M2.R1.11.0051	2NC2FW45-5								Risk Segment NC-027
	Class 1 NC	MCFI-2NC45 MC-ISIN4-2553-01.00	NDE-995	UT	SS	160	0.281 / 1.500	50202	R01.011.017
			Pipe to Nozz	ie					
Circumferential									
M2.R1.11.0057	2SGA-OUTLE	T.WASE							Risk Segment NC-005
1112.111.11.0001	Class 1 NC	MC-ISIN4-2553-01.00 MC-2676-4	PDI-UT-10	υT	ss-cs		3.905 / 31.000	5149697	R01.011.005
		MCM 2201.01-0194						5158172	
			NOZZLE to S	SAFE END					
			STEAM GEN	ERATOR A	OUTLET.				
			Comments a Thickness lis measuremen	ted should b	e used as a n	eference. Dr e drawings N	awings listed sho ACM-2201.01-012	w a thickness range. If acta 8 and MCM-2201.01-0133	al thickness is needed a field for additional reference.
			This examina	ntion was res	cheduled fron	n 2EOC21 (Outage 6) to 2EO	C22 (Outage 7). Reference	e PIP Serial No. M-12-5717.
Circumferential									

Terminal End Dissimilar

This report includes all changes through addendum 2MNS-099

McGuire 2, 3rd Interval, outage (EOC-22)

Summary Num	Component ID Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Comp	onenet ID 2
Category R-A				,		w44 m***********************************				
M2.R1.11.0059	2SGC-OUTLET	-W6SE							Risk Se	gment NC-00
·	Class 1 NC	MC-2676-4 MC-ISIN4-2553-01.00	PDI-UT-10	UT	SS-CS		3.905 / 31.000	5149697		R01.011.00
		MCM 2201.01-0194						5158172		
			NOZZLE to S							
			STEAM GEN actual thickne for additional	iss is needed	OUTLET. The a field meas	ickness liste surement wii	d should be used the required. Also	l as a reference. Drawing o use drawings MCM-220	s listed show a thickness 11.01-0127 and MCM-220	range. If 1.01-0133
Circumferential										
Terminal End										
Dissimilar										
M2.R1.11.0060	2SGD-OUTLET								Risk Se	gment NC-00
		MC-ISIN4-2553-01.00	PDI-UT-10	UT	ss-cs		3.905 / 31.000	5149697		R01.011.00
		MC-2676-4								
		MCM 2201.01-0194						5158172		
			NOZZLE to S							
			STEAM GEN	ERATOR D	DUTLET.					
			Comments as Thickness list measurement	led should be	n a es beau e	eference. Dr e drawings N	ewings listed sho ICM-2201.01-012	w a thickness range. If ac 7 and MCM-2201.01-013	tual thickness is needed 3 for additional reference	a field
			This examina	tion was res	cheduled from	n 2EOC21 ((Outage 6) to 2EO	C22 (Outage 7). Referer	ice PIP Serial No. M-12-5	717.
Circumferential										
Terminal End				•						٠.
Dissimilar						·				
M2.R1.11.0091	2NV2FW180-1	1							Risk Segr	nent NV-0201/
	Class 2 NV	MCFI-2NV180 MC-ISIN4-2554-01.00	NDE-12	RT	SS	160	0.344 / 2.000		·	R01.011.14
			Pipe to Redu	cer						
			Examination	w enc b ed at	ith M2.R1.16	.0021.				
Circumferential										

Summary Num	Component III Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cel Blocks	Component ID 2
Category R-A			-						
M2.R1.11.0091	2NV2FW180-1	1							Risk Segment NV-0201A
	Class 2 NV	MCFI-2NV180 MC-ISIN4-2554-01.00	PDI-UT-2	UT	SS	160	0.344 / 2.000	8279-0410	R01.011.144
		•	Pipe to Reduc	COT				PDI-UT-2-M1	
			Examination t	o be don e wi	th M2.R1.16.	0021.			
				•				PDI-UT-2A-M	
Circumferential									
M2.R1.11.0277	2NV2FW178-2	2		~ ~~~~~~~~~					Risk Segment NV-084B
	Class 2 NV	MCFI-2NV178 MC-ISIN4-2554-01.02	PDI-UT-2	UT	SS		0.216 / 3.000	PDI-UT-2-M1	R01.011.154
			Elbow to Pipe)				PDI-UT-ZA-M	
					n Addendum :	2MNS-088:	Reference PIP N	lo. M-12-08728, Action No.	1.
Circumferential								·	
M2.R1.11.0585	2NV2FW215-2	9							Risk Segment NV-084A
	Class 2 NV	MCFI-2NV215 MC-ISIN4-2554-01.02	PDI-UT-2	UT	SS		0.344 / 2.000	PDI-UT-2-M1	R01.011.1052
			Elbow to Pipe	•				PDI-UT-2A-M	
			to meet code weld within the substitute wel	coverage recis segment, old is needed thin this Ri-ISI	quirements in upon approva for 2NV2FW2 Segment shi	order to ave I by the SXI 215-29, which	oid a relief reque: IP Group, in orde in is scheduled fo	st for limited coverage. The r to meet the code required	is RI-ISI Segment must be obtained in NDE Group may substitute another examination coverage. If a 22 Refueling Outage, the following 215-4, 2NV2FW215-28,
Circumferential									

Summary Num	Component II Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A									
M2.R1.11.0596	2NV2FW215-4	10							Risk Segment NV-080B
	Class 2 NV	MCFI-2NV-215 MC-ISIN4-2554-01.02	PDI-UT-2	υT	SS	160	0.344 / 2.000	PDI-UT-2-M1	R01.011.1053
			Pipe to Redu	CEF				PDI-UT-2A-M	
			Segment 2N The NDE Gro obtain maxim	V-0080B mus oup may subs num coverage	st be obtained stitute another to meet code	to meet cor weld within a coverage	de coverage requirement (2) requirements. R	iirements in order to avo NV-0080B), upon approv	coverage of one of the welds in RI-ISI id a relief request for limited coverage. rai by the SXIP Group, in order to IB consists of the following Weld IDs: 2NV2FW215-46.
								50211	
Circumferential									
M2.R1.11.1542	2NV2F-36								Risk Segment NV-019AA
	Class 2 NV	MCFI-2NV2 MC-ISIN4-2554-03.00	PDI-UT-2	υT	SS	160	0.438 / 3.000	PDI-UT-2-M1	R01.011.135
			Tee to Pipe					PDI-UT-2A-M	
			Examination	to be done w	ith M2.R1.16.	0014.			
Circumferential									
M2.R1.11.1684	2NC2FW16-7						· · · · · · · · · · · · · · · · · · ·		Risk Segment NC-032
industrial transfer	Class 1 NC	MCFI-2NC16 MC-ISIN4-2553-01.00	PDI-UT-2	UT	SS	160	0.719 / 6.000	PDI-UT-2-M1	R01.011.9277
			Pipe to Elbov	W				PDI-UT-2A-M	
								50211	
Circumferential									

Summary Num	Component iD Class / System		Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
Category R-A									
M2.R1.16.0014	2NV2F-36				······································				Risk Segment NV-019A/
	Class 2 NV	MCFI-2NV2 MC-ISIN4-2554-03.00	PDI-UT-2	UT	SS	160	0.438 / 3.000	PDI-UT-2-M1	
			Tee to Pipe					PDI-UT-2A-M	
			This weld is of PIP M-10-353 Examination	38.	_		ned Inservice Ins	pection Program, Proc	edure PDI-UT-2 to be used reference
M2.R1.16.0021	2NV2FW180-1								Risk Segment NV-0201/
IHZ.N1.10.0021	Class 2 NV	MCFI-2NV180 MC-ISIN4-2554-01.00	NDE-12	RT	8 S	160	0.344 / 2.000		-
			Pipe to Redu	cer					
			This weld is o M2.R1.11.00		3SCC) for the	Risk Infon	med inservice ins	pection Program. Exa	mination to be done with
M2.R1.16.0021	2NV2FW180-1	1		·····					Risk Segment NV-0201/
	Class 2 NV	MCFI-2NV180 MC-ISIN4-2554-01.00	PDI-UT-2	υT	SS	160	0.344 / 2.000	8279-0410	
			Pipe to Redu	cer				PDI-UT-2-M1	
			This weld is 0 M2.R1.11.00		GSCC) for the	Risk Infor	med Inservice Ins	paction Program. Exa	mination to be done with
								PDI-UT-2A-M	
					End of R	enori			anganggan aga ga an anan atau an taun an

SECTION 4

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

There was a reportable condition discovered by Ultrasonic (UT) examination during the ISI inspection of Piping Weld ID 2NC2FW45-5 (Summary Number M2.R1.11.0051) and the Augmented inspection of Cold Leg 2D Nozzle 4-1 (Summary Number M2.G13.1.0001).

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.

PIP M-14-03153 was written to document the reportable condition found during the Ultrasonic examination performed on Weld ID 2NC2FW45-5 (Summary Number M2.R1.11.0051) and Cold Leg 2D Nozzle 4-1 (Summary Number M2.G13.1.0001). Plan Addendum 2MNS-096 was written to add one additional sample weld (Weld ID 2NC2FW39-1 / Summary Number M2.R1.11.0048) to the 2EOC22 examination schedule per the requirements of the McGuire ISI Risk Informed Program.

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

Item Number	PIP Number
M2.R1.11.0048	M-14-05018
M2.R1.11.0051	M-14-05018
M2.C1.20.0025	M-14-06388

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

Inspection Results

McGuire 2, 3rd Interval, Outage 7 (EOC-22)

McGuire 2EOC22 Inspection Results

Summary No	Component ID	System	insp Date	insp Status	insp Limited	Geo Ref	RFR	Comment	
M2.B15.80.0001	2-RPV-BMI-NOZZLES	NC	03/25/14	CLR	N	N	N	VT-14-942	
M2.B4.10.0002	2RPV-Head-Multiple	NC	04/06/14	CLR	N	N	N	VT-14-946	
M2.B6.110.0001	2SGA-MW-Y1-X1	NC	03/25/14	CLR	N	N	N	VT-14-952	
M2.B6.110.0002	2SGA-MW-X1-Y2	NC	03/25/14	CLR	N	N	N	VT-14-953	
M2.B6.110.0007	2SGD-MW-Y1-X2	NC	03/25/14	CLR	N	N	N	VT-14-954	
M2.B6.110.0008	2SGD-MW-X2-Y2	NC	03/25/14	CLR	N	N	N	VT-14-955	
M2.B6.180.0004	2RCP-2D-F	NC	04/02/14	CLR	N	N	N	UT-14-379	
M2.B7.70.0009	2NI-129	NI	03/31/14	CLR	N	N	N	VT-14-943	
M2.B7.70.0012	2NI-180	NI	03/31/14	CLR	N	N	N	VT-14-944	
M2.B7.70.0023	2NI-70	NI	03/31/14	CLR	N	N	N	VT-14-945	
M2.C1.20.0001	29GC-W144	SM	04/04/14	CLR	N	N	N	UT-14-384	
		SM	04/04/14	CLR	N	N	N	UT-14-385 (F	Page 1)

Scheduleworks

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.C1.20.0001	2SGC-W144	SM	04/04/14	CLR	N	N	N	UT-14-385 (Page 2)
		SM	04/04/14	CLR	N	N	N	UT-14-385 (Page 3)
M2.C1.20.0025	2RCHPA-10-1	NV	03/25/14	CLR	Y	N	Y	UT-14-389 (Page 1)
								Percent of coverage <90%. Relief Request is required. Reference PtP M-14-6388.
		NV	03/25/14	CLR	Y	N	Y	UT-14-389 (Page 2)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-6388.
		NV	03/25/14	CLR	Y	N	Y	UT-14-389 (Page 3)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-6388.
M2.C2.31.0007	2RHRHX-2A-INLET	ND	03/13/14	ÇLR	N	N	N	PT-14-056
M2.C2.31.0008	2RHRHX-2A-OUTLET	ND	03/13/14	CLR	N	N	N	PT-14-057
M2.C3.20.0024	2MCA-NI-5048	NI	03/06/14	CLR	N	N	N	PT-14-055
M2.C6.20.0052	2CF01268-1	CF	04/08/14	CLR	N	N	N	MT-14-068
M2.D1.10.0017	2VGTK-SUPPORT-2A1	VG	02/10/14	CLR	N	N	N	VT-14-918
M2.D1.20.0004	2MCA-SA-5075	SA	02/26/14	CLR	N	N	N	VT-14-920
M2.D1.20.0005	2MCA-WN-5101	WN	02/10/14	CLR	N	N	N	VT-14-919
M2.F1.10.0118	2MCR-NI-4527	NI	03/25/14	CLR	N	N	N	VT-14-937
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Summary No	Component ID	System	Insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.F1.10.0167	2MCR-NV-4318	NV	03/25/14	CLR	N	N	N	VT-14-936
M2.F1.10.0177	2MCR-NV-4381	NV	03/25/14	CLR	N	N	N	VT-14-935
M2.F1.20.0009	2MCA-CA-H145	CA	02/25/14	CLR	N	N	N	VT-14-928
M2.F1.20.0010	2MCA-CA-H141	CA	02/25/14	CLR	N	N	N	VT-14-929
M2.F1.20.0011	2MCA-CA-H134	CA	02/24/14	CLR	N	N	N	VT-14-927
M2.F1.20.0038	2MCA-ND-5482	ND	02/19/14	REC	N	N	N	VT-14-951
								Acceptable per Engineering Evaluation dated 02/25/14. Reference PIP M-14-01427.
M2.F1.20.0041	2MCA-ND-6127	ND	02/26/14	CLR	N	N	N	VT-14-934
M2.F1.20.0042	2MCA-ND-6130	ND	03/03/14	REC	N	N	N	VT-14-947
								Acceptable per Engineering Evaluation dated 03/05/14. Reference PIP M-14-01803.
M2.F1.20.0045	2MCA-ND-6220	ND	02/20/14	CLR	N	N	N	VT-14-902
M2.F1.20.0046	2MCA-ND-6280	ND	02/19/14	CLR	N	N	N	VT-14-889
M2.F1.20.0047	2MCA-ND-5502	ND	03/05/14	CLR	N	N	N	VT-14-899
M2.F1.20.0050	2MCA-ND-5503	ND	02/18/14	CLR	N	N	N	VT-14-923
								

Summary No	Component ID	System	insp Date	insp Status	insp Limited	Geo Ref	RFR	Comment
M2.F1.20.0052	2MCA-ND-6210	ND	02/19/14	REC	N	N	N	VT-14-950
								Acceptable per Engineering Evaluation dated 02/24/14. Reference PIP M-14-01421.
M2.F1.20.0055	2MCA-ND-6009	ND	02/17/14	CLR	N	N	N	VT-14-908
M2.F1.20.0056	2MCA-ND-6003	ND	02/18/14	CLR	N	N	N	VT-14-922
M2.F1.20.0057	2MCA-NI-7004	NI	02/24/14	CLR	N	N	N	VT-14-926
M2.F1.20.0058	2MCA-NI-7003	Ni	02/17/14	CLR	N	N	N	VT-14-886
M2.F1.20.0141	2MCA-NV-5013	NV	02/17/14	CLR	N	N	N	VT-14-904
M2.F1.20.0142	2MCA-NV-5007	NV	02/18/14	CLR	N	N	N	VT-14-888
M2.F1.20.0143	2MCA-NV-5205	NV	02/24/14	CLR	N	N	N	VT-14-924
M2.F1.20.0144	2MCA-NV-5104	NV	02/17/14	CUR	N	N	N	VT-14-905
M2.F1.20.0145	2MCA-NV-5225	NV	02/17/14	CLR	N	N	N	VT-14-907
M2.F1.20.0146	2MCA-NV-5216	NV	02/18/14	CLR	N	N	N	VT-14-921
M2.F1.20.0174	2MCA-SV-H53	sv	02/25/14	CLR	N	N	N	VT-14-901
M2.F1.20.0175	2MCA-SV-H55	sv	02/25/14	CLR	N	N	N	VT-14-930
M2.F1.20.0180	2MCA-VQ-5017	VQ	02/24/14	CLR	N	N	N	VT-14-925

Summary No	Component ID	System	Insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment
A2.F1.20.0272	2MCA-ND-5017	ND	02/24/14	REC	N	N	N	VT-14-948
								Acceptable per Engineering Evaluation dated 02/25/14. Reference PIP M-14-01421.
12.F1.20.0405	2MCA-NI-5048	NI	02/17/14	CLR	N	N	N	VT-14-887
12.F1.20.0591	2MCA-NV-5315	NV	02/18/14	CLR	N	N	N	VT-14-911
12.F1.20.0606	2MCA-NV-5508	NV	02/17/14	CLR	N	N	N	VT-14-906
/2.F1.20.0622	2MCA-NV-5615	NV	02/17/14	CLR	N	N	N	VT-14-909
12.F1.20.0624	2MCA-NV-5620	NA	02/17/14	CLR	N	N	N	VT-14-910
/2.F1.20.0648	2MCA-NV-5655	NV	02/19/14	REC	N	N	N	VT-14-949
								Acceptable per Engineering Evaluation dated 02/24/14. Reference PIP M-14-01425.
12.F1.20.1090	2MCR-SM-H82	SM	04/08/14	CLR	N	N	N	VT-14-957
12.F1.20.1118	2MCR-WL-4068	WL	03/25/14	CLR	N	N	N	VT-14-938
12.F1.30.0061	2MCA-RN-3205	RN	06/17/13	CLR	N	N	N	VT-14-891
/2.F1.30.0063	2MCA-RN-3393	RN	02/26/14	REC	N	N	N	VT-14-839
								Acceptable per Engineering Evaluation dated 02/27/14. Reference PIP M-14-01661.
2.F1.30.0064	2MCA-RN-3115	RN	02/26/14	CLR	N	N	N	VT-14-933

Summary No	Component ID	System	insp Date	insp Status	insp Limited	Geo Ref	RFR	Comment
M2.F1.30.0066	2MCA-SA-5086	SA	02/26/14	CLR	N	N	N	VT-14-931
M2.F1.30.0067	2MCA-WN-5005	WN	02/10/14	CLR	N	N	N	VT-14-917
M2.F1.30.0068	2MCA-WN-5101	WN	02/10/14	CLR	N	N	N	VT-14-913
M2.F1.30.0411	2MCA-RN-3018	RN	03/05/14	REC	N	N	N	VT-14-940
								Acceptable per Engineering Evaluation dated 03/10/14. Reference PIP M-14-01921.
M2.F1.30.0418	2MCA-RN-3027	RN	02/25/14	CLR	N	N	N	VT-14-892
M2.F1.30.0421	2MCA-RN-3031	RN	03/10/14	CLR	N	N	N	VT-14-900
M2.F1.30.0423	2MCA-RN-3034	RN	02/27/14	CLR	N	N	N	VT-14-898
M2.F1.30.0426	2MCA-RN-3037	RN	02/26/14	CLR	N	N	N	VT-14-896
M2.F1.30.0463	2MCA-RN-3103	RN	02/26/14	CLR	N	N	N	VT-14-932
M2.F1.30.0470	2MCA-RN-3116	RN	02/26/14	CLR	N	N	N	VT-14-897
M2.F1.30.0509	2MCA-RN-3170	RN	02/25/14	CLR	N	N	N	√T-14-893
M2.F1.30.0525	2MCA-RN-3188	RN	02/26/14	CLR	N	N	N	VT-14-895
M2.F1.30.0586	2MCA-RN-3330	RN	02/26/13	CLR	N	N	N	VT-14-894
M2.F1.30.0601	2MCA-WN-5001	WN	02/10/14	CLR	N	N	N	VT-14-914

Summary No	Component ID	System	Insp Date	Insp Status	insp Limited	Geo Ref	RFR	Comment
M2.F1.30.0603	2MCA-WN-5003	WN	02/10/14	CLR	N	N	N	VT-14-916
M2.F1.30.0651	2MCA-SA-5075	SA	02/26/14	REC	N	N	N	VT-14-941
								Acceptable per Engineering Evaluation dated 02/27/14. Reference PIP M-14-01662.
M2.F1.40.0079	2CAPTD-SUPPORT	CA	02/12/14	CLR	N	N	N	VT-14-903
M2.F1.40.0081	2LDST-SUPPORT-2A	LD	02/10/14	CLR	N	N	N	VT-14-915
M2.F1.40.0111	2VGTK-SUPPORT-2A1	VG	02/10/14	CLR	N	N	N	VT-14-912
M2.F1.40.0112	2WNP-SUPPORT-2B3	WN	02/12/14	CLR	N	N	N	VT-14-890
M2.G13.1.0001	Cold Leg 2D Nozzie 4-1	NC	04/01/14	REP	Y	N	N	UT-14-374
								Percent of coverage >90%. No Relief Request is required.
M2.G13.1.0003	Cold Leg 2D Nozzie 4-5	NC	04/01/14	CLR	N	N	N	UT-14-382 (Page 1)
		NC	04/01/14	CLR	N	N	N	UT-14-382 (Page 2)
		NC	04/01/14	CLR	N	N	N	UT-14-382 (Page 3)
M2.G13.1.0004	Cold Leg 2A Nozzie 1-3	NC	04/01/14	CLR	N	N	N	UT-14-383 (Page 1)
		NC	04/01/14	CLR	N	N	N	UT-14-383 (Page 2)
		NC	04/01/14	CLR	N	N	N	UT-14-383 (Page 3)
M2.G3.1.0003	2NC2FW22-11	NC	03/27/14	CLR	N	N	N	PT-14-058

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.G3.1.0003	2NC2FW22-11	NC	03/27/14	CLR	N	N	N	UT-14-380 (Page 1)
		NC	03/27/14	CLR	N	N	N	UT-14-380 (Page 2)
M2.G6.2.0001	2PZR-Manway	NC	03/24/14	CLR	N	N	N	VT-14-956
M2.R1.11.0022	2NI2F-2	NI	04/09/14	CLR	N	N	N	UT-14-392 (Page 1)
		NI	04/09/14	CLR	N	N	N	UT-14-392 (Page 2)
		NI	04/09/14	CLR	N	N	N	UT-14-392 (Page 3)
		NI	04/09/14	CLR	N	N	N	UT-14-392 (Page 4)
M2.R1.11.0048	2NC2FW39-1	NC	04/03/14	CLR	Y	N	Υ	UT-14-388 (Page 1)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/03/14	CLR	Y	N	Y	UT-14-388 (Page 2)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/03/14	CLR	Y	N	Y	UT-14-388 (Page 3)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/03/14	CLR	N	Y		UT-14-388 (Page 4)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/03/14	CLR	Y	N	Y	UT-14-388 (Page 5)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
M2.R1.11.0051	2NC2FW45-5	NC	04/01/14	REP	Y	N	Y	UT-14-375 (Page 1)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.

SDQA Cat "C"

Summary No	Component ID	System	Insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.R1.11.0051	2NC2FW45-5	NC	04/01/14	REP	Y	N	Y	UT-14-375 (Page 2)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/01/14	REP	Y	N	Y	UT-14-375 (Page 3)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/01/14	REP	Y	N	Y	UT-14-375 (Page 4)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
		NC	04/01/14	REP	Y	N	Y	UT-14-375 (Page 5)
								Percent of coverage <90%. Relief Request is required. Reference PIP M-14-5018.
M2.R1.11.0057	2SGA-OUTLET-W6SE	NC	03/31/14	CLR	Y	N	N	UT-14-372 (Page 1)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-372 (Page 2)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-372 (Page 3)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-372 (Page 4)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-372 (Page 5)
								Percent of coverage >90%. No Relief Request is required.
M2.R1.11.0059	2SGC-OUTLET-W6SE	NC	03/31/14	CLR	Y	N	N	UT-14-373 (Page 1)
								Percent of coverage >90%. No Relief Request is required.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.R1.11.0059	2SGC-OUTLET-W6SE	NC	03/31/14	CLR	Y	N	N	UT-14-373 (Page 2)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-373 (Page 3)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-373 (Page 4)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/31/14	CLR	Y	N	N	UT-14-373 (Page 5)
								Percent of coverage >90%. No Relief Request is required.
M2.R1.11.0060	2SGD-OUTLET-W6SE	NC	03/30/14	CLR	Y	N	N	UT-14-369 (Page 1)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/30/14	CLR	Y	N	N	UT-14-369 (Page 2)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/30/14	CLR	Y	N	N	UT-14-369 (Page 3)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/30/14	CLR	Y	N	N	UT-14-369 (Page 4)
								Percent of coverage >90%. No Relief Request is required.
		NC	03/30/14	CLR	Y	N	N	UT-14-369 (Page 5)
								Percent of coverage >90%. No Relief Request is required.
M2.R1.11.0091	2NV2FW180-11	NV	04/05/14	CLR	N	N	N	RT-14-017

Summary No	Component ID	System	insp Date	insp Status	insp Limited	Geo Ref	RFR	Comment
M2.R1.11.0091	2NV2FW180-11	NV	04/05/14	CLR	Y	N	N	UT-14-390 (Page 1)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.
		W	04/05/14	CLR	Y	N	N	UT-14-390 (Page 2)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.
		NV	04/05/14	CLR	Y	N	N	UT-14-390 (Page 3)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.
		NV	04/05/14	CLR	Y	N	N	UT-14-390 (Page 4)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.
M2.R1.11.0277	2NV2FW178-22	NV	03/30/14	CLR	N	N	N	UT-14-381 (Page 1)
		NV	03/30/14	CLR	N	N	N	UT-14-381 (Page 2)
M2.R1.11.0585	2NV2FW215-29	NV	03/28/14	CLR	N	Y	N	UT-14-378 (Page 1)
		NV	03/28/14	CLR	N	Y	N	UT-14-378 (Page 2)
		NV	03/28/14	CLR	N	Y	N	UT-14-378 (Page 3)
M2.R1.11.0596	2NV2FW215-40	NV	03/28/14	CLR	N	Y	N	UT-14-387 (Page 1)
		NV	03/28/14	CLR	N	Y	N	UT-14-387 (Page 2)
		NV	03/28/14	CLR	N	Y	N	UT-14-387 (Page 3)

Summary No	Component ID	System	insp Date	Insp St atus	insp Limited	Geo Ref	RFR	Comment
M2.R1.11.0596	2NV2FW215-40	NV	03/28/14	CLR	N	Y	N	UT-14-387 (Page 4)
M2.R1.11.1542	2NV2F-36	NV	03/25/14	CLR	Y	N	N	UT-14-377 (Page 1)
								Percent of coverage >90%. No Relief Request required.
		NV	03/25/14	CLR	Y	N	N	UT-14-377 (Page 2)
								Percent of coverage >90%. No Relief Request required.
		NV	03/25/14	CLR	Y	N	N	UT-14-377 (Page 3)
								Percent of coverage >90%. No Relief Request required.
M2.R1.11.1684	2NC2FW16-7	NC	04/02/14	CLR	N	N	N	UT-14-386 (Page 1)
		NC	04/02/14	CLR	N	N	N	UT-14-386 (Page 2)
M2.R1.16.0014	2NV2F-36	NV	03/25/14	CLR	Y	N	N	UT-14-376 (Page 1)
								Percent of coverage >90%. No Relief Request required.
		NV	03/25/14	CLR	Y	N	N	UT-14-376 (Page 2)
								Percent of coverage >90%. No Relief Request required.
		NV	03/25/14	CLR	Y	N	N	UT-14-376 (Page 3)
								Percent of coverage >90%. No Relief Request required.
M2.R1.16.0021	2NV2FW180-11	NV	04/05/14	CLR	N	N	N	RT-14-018
		NV	04/05/14	CLR	Y	N	N	UT-14-391 (Page 1)

This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
M2.R1.16.0021	2NV2FW180-11	NV	04/05/14	CLR	Y	N	N	UT-14-391 (Page 2)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.
		NV	04/05/14	CLR	Y	N	N	UT-14-391 (Page 3)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.
		NV	04/05/14	CLR	Y	N	N	UT-14-391 (Page 4)
								This was performed as a supplemental exam. No Relief Request is required since 100% coverage was obtained by RT exam.

SECTION 5

5.0 Owner's Report for Repair / Replacement Activities

As required by the applicable code, records of Class 1, Class 2, and Class 3 Repair and Replacement work are included on NIS-2 forms in this section. Attachment A lists the NIS-2 Forms that were completed during EOC22.

The NIS-2 forms included in this section were completed for work performed during this report period. No items were determined to have work performed outside this report period. The individual work request documents and manufacturers' data reports are on file at McGuire Nuclear Station.

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 EOC22 are filed with the work order and can be viewed in NEDL Portal.

Work Order#	Task#	Class	Description of work NIS2's for 2EOC22	1
592076	13	В	Replaced piping and valve 2BB7	
1768930	13	В	Replaced poppet in valve 2SM7	
1924311	2	В	Replaced bonnet assembly on valve 2FW75	
2054476	17	C	Replaced 2 inch flat bar and welds between items 4 and 8 on hanger 2MCA-NV-5921 per EC105234	
2054476	19	C	Replaced piping and valves 2NV359 and 371 per EC105234	
2062428	1	С	Deleted hanger 2MCA-VN-5160 and installed hanger 2MCA-VN-5162 per EC108848	
2062430	13	C	Installed hanger 2MCA-RN-3414 per EC108781	
2062430	21	С	Added piping and valve 2RN448 per EC108781	
2069269	15	₿	Replaced U bolt and nuts on hanger 2MCA-S-V\$-500-01-C	
2086845	2	В	Replaced disc in valve 2NV248	
2095049	4	B	Replaced plug in valve 2SV1	-
2098293	6	В	Replaced bolting material in body to bonnet on valve 2NV7	•
2099275	2	В	Replaced disc, bonnet, and yoke on valve 2NV246	·
2099364	20	8	Replaced pivot pin on hanger 2MCA-NV-7020	
2099364	60	Α	Replaced load stud and nuts in hanger 2MCR-NC-4297	
2100327	2	В	Replaced control valves 4 & 5 in S/G 28 lateral support	
2101773	6	C	Replaced end bell bolting material on the component cooling heat exchanger 2A	
2101794	10	Α	Replaced bolting material on 1 1/2" seal injection line at 2C NC Pump	
2102328	4	A	Replaced valve 2NC3	
2102480	3	B	Replaced disc in valve 2NV1002	
2102514	2	B	Replaced plug in valve 2NV238	
2102522	9	C	Replaced bolting material on hanger 2MCA-RN-4244	- ···
2116167		C	Replaced piping and valves 2NV331 and 2NV344	
2117680	16	С	Added piping and valve 2CA291 per EC111274	
2124934	11	С	Installed hanger 2MCA-CA-5571 per EC111274	
2124934	16	С	Added piping , bolting material at 2" blind flange, and valve 2CA294 per EC 111274	••
2124935	16	C	Added piping and valve 2CA297 per EC111274	
2139324	2	8	Replaced snubber on hanger 2MCA-SM-11	
2144518	2	8	Replaced bolting material in manway of Containment Spray Heat Exchanger	•
2145700	10	В	Replaced body to bonnet bolting on valve 2CF121	
2146084	1	C	Replaced snubber on hanger 2MCA-RN-3130	
2146133	1	С	Replaced snubber on hanger 2MCA-S-RN-530-01-H	
2146430	1	С	Replaced snubber on hanger 2MCA-KC-3041, snubber was removed on w/o 2099364	• •
2146542	1	С	Replaced snubber on hanger 2MCA-S-RN-532-1-PP	
2147122	20	A	Replaced 1 1/2" bent piping at "D" Loop cold leg	
2147306	1	8	Replaced snubber on hanger 2MCA-S-NV-504-1-ll	
2148547	1	Α	Replaced two snubbers on hanger 2MCR-NI-4570	1

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

1. Owner <u>Duke E</u>	nergy Carolinas, LLC	At acquires by the	Provisions of the Asmis. Cod	Date 4/30/2014	***************************************		
526 So	uth Church Street, Charlotte, I	VC. 28201		- Sheet 1 of 2		-	
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, H	untersville. NC 28078		592076-13			
3. Work Performed by	Address Duke Energy Carolinas, LL	c	•	· -	- 5	Organization P.O. No., Job	No., etc.)
5. WORK FERIORISCH DY	Name			Type Code Symbol St		To all all all an advantable to a control of the co	
ಿ ಸಮಯ ಅರ್ಭುವ ಕ್ರಾಗ್ ಮಯ ಪ	526 South Church Street, C		Authorization No.: N/A Expiration Date: N/A				
4. Identification of Syste	m BB - Steam Generator Blo	wdown Recycle	i de encon liber i l'appare recon actificació succión.	under 1. Sternach von der mindere mindere mindere in der Weiter in der einer der der	* 3'87 * 220 ev.	ann merupakan kemendi dibana - at agai di menelebanya. Manggalan pendagan bermanan di banggalan bermanan bermanan bermanan bermanan bermanan bermanan bermanan berman	
(b) Applicable Edition	ruction Code ASME III n of Section XI used for Repa n XI Code Case(s) N/A conents	ir/Replacement Activity	1971 Edi 1998 Edition with the	tion, Summer and Winter 1999 and 2000 Addenda	Add	Secretary of the August Secretary	Code Case
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)
2BB7	Borg Warner	9083	92	NA	1976	Removed	Yes
2BB7	Flow Serve	92 BUW	2941	sc 866577, utc 2008627	2012	Installed	Yes
						i	
		4	The state of the s		1	1	
						1	
	N= 1 - 14				1	<u>:</u>	
7. Description of Work	Replaced Componer	t/Part/Appurtenance					
Additional Description	Replaced piping an	d valve 2BB7	and the party was the descent against the same of making the same	and the second s	e a ver ann debride i		
8. Tests Conducted: Hy	the second of the second of		Pressure Exemp	ot Other Pressure	1060 P	SI Test Temp. 1	10 %
Description (Optional):	Test performed per procedure	MP/0/A/7650/076.					
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FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Info	rmation, 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).: MCFI-2E	3B60 & 2BB61	
Flow Diagram No(s).:	MCFD-2580-01.00	entermination of the following the complete of
Support/Restraint Sketch/Drawing No(s).:	N/A	ggy (ga) i graf i nathannoggi, i gi ga) gay gay gay an i i na i naghai praesta pag pag ya Tan yi ani da Anary (nyi e gi i na makibi 2000 da e ya naghannog baran ya makibi 2000 da e ya naghannog baran ya naghai 2000 da e ya nag
Other Applicable Information (e.g., W.O. N	lo., EC No.) if not included elsewhere on NIS-2 Form:	e paragram a paras, confectionalização que incorporar à applicação dobre como como como como como como de la como dela como del la como dela como del la como del la como dela como dela como del la como dela como del la como del la como dela como dela como dela como dela como del la como dela
	Applicable Manufacturer's Data Reports to be attached	di
	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 Technica		Date April 30 , 20 14
Owner or Owner's Design	gnee, Title	
I the undersigned holding a valid commission	CERTIFICATE OF INSERVICE INSPEC issued by the National Board of Boiler and Pressure Vessel	·
North Carolina	and employed by The Hartford Steam Bo	oiler Inspection and Insurance Company
Connecticut	- 133 - 12 - 137	
2-20-19 10 5-1-19		in this Owner's Report during the period
	ccordance with the requirements of the ASME Code, Section	ef, 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 for connected with this inspection.	nor his employer makes any warranty, expressed or implied he Inspector nor his employer shall be liable in any manner i	l, concerning the examinations and corrective measures described for any personal injury or property damage or a loss of any kind
IF Swan prove that	Commissions NB11473	-NC1524, N-I
Inspector's Signature		
	National Board, State, Province, a	and Endorsements

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

		أعطيين بمبطرة القروب ويوريها سيددان الكالد		
1. Manufactured and certified by	Flowserve Corpora	ace, 1900 Scratt Squader	Street, Rainigh, N.C. 17403	
			•	
2. Manufactured for . Duke Enery	Cerolines, LLC , P.O. No.	t 37925, Charlotte, NC 2	2 37	
	······································	frame and edition	s of Furdicion)	
3. Location of Installation McGui	re Nuclear Station, 13229	Mages Ferry Road, Hwy	. 73. Hunersville, NC . 28078-	898 5
		Phone 1		
4. Model No., Series No., or Type	1500 GATE	Swing 74458	Barr	CRH N/A
A. House whi thinks whi to the "			mana Park an analana Parkanan an	- City
A AMARIM Markin day at a market to the	1 1971	SUNGER 1973		N/A
5. ASME Code, Section III, Division	13/1-	30,500		(Code Chile re.)
. 3743399		Carrent Abbreion		
8. Pump or valve VALVE	Morninal Intet size	2.90° Custon	sten	
	•			•
7. Material	•			
(a) valve Body SA182-P316	Sonnet \$A182-9316	Disk SANSI-CIFEM	Bolting N/A	
(b) pump Casing	Cover	Bellino		
			,	
(a) Carificate	(b) Platonal	(n) Budy/Casing	(d) Bosnet/Cover	(e) Disk
Carincine Holders	Metiona) Board	Book Casing	Bosnet/Cover Bartel	
Seriel No.	No.	No.	No.	Serial No.
92BUW9	2941 0	AA-78 U	M7923-1-1	P9850-3
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"Supplemental information in the form of fells, elepates, or drawings may be used provided: (1) size in 61/2 or 11; (8) information in items. I drawing 4 on this Date Propert is included on each short; and (3) each short is numbered and the reunder of shorts is recorded at the top of this form.

(07/10)

2

FORM NPV-1 (Rack -- Pa 2 of __2 92BUW Certificate Holdar's Serial No. the contraction of the contraction of the property 9. Cold working pressure 5400 peig 10. Hydrostatic test Disk differential test pre-..... 11. Remarks _ S.O. 68688-03 DRAIN PIPE- MATL': SAJ12-GR.JO4, HEAT NO: V00419, SN: 3 CENTURCATION OF DEB Design Specification certified by Robert Eugene Miller Design Report certified by NIA P.E. State CENTIFICATE OF COMPLIANCE We carify that the statements made in this report are correct and that this sump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N-1562 N Certificate of Authorization No. FLOWSERVE CORPORATION /30/2013 Name CAPTURGATE OF BURNECTION I, the undersigned, holding a valid commission issued by the National Soard of Spiler and Pressure Vessel Inspectors and employed by HSB.CT Haglord, Connecticat have inspected the pump, or valve, described in this Data Report on

By signing this certificate neither the inspector for his employer makes any warranty, expressed or implied, concerning the component described In this Data Report. Furthermore, reither the impactor nor his employer shall be fields in any menner for any personal injury or preparty damage

,, and state that to the best of my knowledge and light, the Certificate Neider hea constructed this pump, or valve,

(07/11)

in accordance with the ASME Code, Section III, Division 1.

or a loss of any kind arising from or conn

			n Repoi			- ,
Purchase Ord	er No	158030] . D 84	CD-280 Stock/Cat ID:	866577	ID: 124410
Station MC	MEDO	10.:	NA	Part No.:	NA	QA Shop No.: 0361
Vendor FLOW	VSERVE CORP	ORATION	,	Manufacturer FLO	NSERVE CORPO	RATION
Item No.	Total	Quen.	ÚTC No.		ot Ho/Batch No.	Serial No.
2	1	1	2008627	NA NA	, NA	92 B UW
Description:	VALVE, GATE,	LESS ACTUATO	R, 2", 09J-234, 15	500W, SW, SS, ASME SA-18	82 F318	
CK'd Siz	SAMPLE Pass	Duke/ Fall Vendor	Inspect	tion, Examination, and Testi Performed - Specify	ng	Procedures/Standards Used
TMG	1 1	0 D		nguration/Workmanship	1	-311 Rev.: 10
TMG	1 1	0 D	Dimensions	i 🗆 Approx. 🗹 Te	olerance	
TMG		0 0	Electrical Magnetic	O Yes @ No		
			☐ Weight			
			Pressure:			QA Condition: 1
	╼╁┾╼═┤┼	 	☐ Chem. Anal			
	الصال		Other			Commercial Grade Over-Check
Comments	<u>. </u>					
		Calibrated	Yest Evenines			
				ion, and inspection Equip	ment Used:	
	ent Type	Mod	N Humber	Sorial Hun	nber	Calibration Due
Dial C		Mod			nber	Calibration Due
		Mod	N Humber	Sorial Hun	nber	
		Mod	N Humber	Sorial Hun	nber	
		Mod	N Humber	Sorial Hun	nber	
Dial C			of Humber 120	Serial Nun MCQUA32	nber .	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	1 ber 1758	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	1 ber 1758	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	1 ber 1758	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	1 ber 1758	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	1 ber 1758	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	1 ber 1758	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	8 V:	
Dial C	allper		of Humber 120	Serial Nun MCQUA32	8 V:	
I. Descrip	tion of Pro	blem Pro	blems Sent	Serial Nun MCQUA32	**************************************	12/4/2013 Date:
I. Descrip	tion of Pro		blems Sent	Gertei Nun MCQUA32 To:	8 V:	12/4/2013 Date:

1. Owner Duke I	Energy Carolinas, LLC			- Date 5/6/2014			
526 S	outh Church Street, Charlotte, Address	NC, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station			Unit 2			
*	12700 Hagers Ferry Road.	Huntersville, NC 28078		1768930-13		THE STATE AND STATE AND ADMINISTRATION AND ADMINISTRATION.	
	Addres	8		Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, L.	LC		Type Code Symbol St	amp: N/	A	
				Authorization	No.: N	A	
ے دے	526 South Church Street, C			Expiration I	Date: N/	A	
4. Identification of Syst	em SM - Main Steam	Conserver all all the conservers to the second and the second the second all second and the second all second and the second a	n a paggin si pinan spanjan ana an an an in an				
5. (a) Applicable Cons (b) Applicable Editi	struction Code ASME III ion of Section XI used for Rep ion XI Code Case(s) N/A	air/Replacement Activity		ion, Summer and Winter 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
6. Identification of Con	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)
2SM7	Attwood - Morrell	8-623	NA	NA	1976	Corrected	Yes
2SM7	Attwood - Morrell	8-623	NA	NA	1976	Corrected	Yes
2SM7	Attwood - Morrell	8-623	NA	NA	1976	Corrected	:
2SM7	Attwood - Morrell	8-623	NA	NA	1976	Corrected	:
2SM7	Attwood - Morrell	8-623	NA	NA	1976	Connected	:
2SM7	Attwood - Morrell	8-623	NA	NA	1976	Connected	:
			NA	NA	1976	Connected	:
	Replaced Compone	ent/Part/Acourtenance	NA	N/A	1976	Connected	:
7. Description of Work	Replaced Compone	n valve 2SM7				SI Test Temp.	:

9. Remarks (Should Include the Following Infor	mation, as Applicable):	Sheet 2 of 2
	(nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2S	M8	PER TITLE I THE CONTENT CONCENSIONATE IN THE MAIN WORKS, ALMER AN EXPERT HE MAIN AND AN EXPERT HE PROPERTY AND
Flow Diagram No(s).:	MCFD-2605-01.13	C THE CHAIR CONTROL OF THE CONTROL O
Support/Restraint Sketch/Drawing No(s).:	N/A	- Ser Beet y Particular Control Edition Control Contro
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere on NIS-2 Form:	
The second secon	THE REPORT OF THE PROPERTY OF THE PROPERTY OF THE PARK. PROPERTY OF THE PARK O	
	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 Co	de, Section XI.
Type Code Symbol Stamp N/A	אים שם השפקה של או או או איני איני איני או של או איני או או איני און	C 1970CD The CC LC Milliannes CC 192 Million St. Holland May 2 de la company of better CC 1970CD . And the CC 1970CD CC 19
NA INA		
hv/a	en e	N/A
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist Thus	Date May 6 , 20 14
Owner or Owner's Desig		manufacture of the second seco
	CERTIFICATE OF INSERVICE INSPECTION	
principal particular in the particular and a september in the particular in the part	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 Inspec	tion and Insurance Company of
Connecticut	have inspected the components described in this Ow	
4-2-14 10 5-13-1	, and state that to the best of my knowledge and belief, the Own	er has performed examinations and taken corrective
measures described in this Owner's Report in a	exordance 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, concernin	12 the examinations and corrective measures described
in this Owner's Report. Furthermore, neither th	e Inspector nor his employer shall be liable in any manner for any pers	sonal injury or property damage or a loss of any kind
arising from or connected with this inspection.		
JF Swan Former Q F. Low	Commissions NB11473-NC1524, 1	en destription de la company d
Inspector's Signature	National Board, State, Province, and Endorseme	
	FT73.	
Date 3 -/3 - , 2	0/4	

1. Owner	Duke Er	nergy Carolinas, LLC			Date 1/29/2013			
-	526 Soi	uth Church Street, Charlotte, No Address	C, 28201		— Sheet <u>1</u> of <u>2</u>	-		
2. Plant		McGuire Nuclear Station			Unit 2			
			intersville, NC 28078		1924311-02			
		Address			Work Order # (or Repa	ur/Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Perf	formed by				Type Code Symbol	Stamp: N/	A	
			NG 20201 1004	•	Authorization	OII 140		
		Address	anoue, NC 28201-1000		Expiration	Date: N/	A	
4. Identificat	ion of Syste	m 'FW - Refueling Water	ن دروه هر هریمان در به در همار بیشته به است. در مهد در از از این از این از این از این از این از این	n was one more freezione. Martini de		en ನಿರ್ವಹಿಸುವ	rasayina ir mai iski.	TO CONTRACT
(b) Appli (c) Appli	icable Editio cable Sectio	n of Section XI used for Repair n XI Code Case(s) N/A	/Replacement Activity			Add	lenda, <u>N/A</u>	Code Case
•		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2FW75	3	ITT Grinnell	80-52815-1-8	WR6321	V File# 1354	1980	Corrected	Yes
	sen co.		-ar .				i Postal i commencia i incigar	n aria (mily)
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7								
	· · · · · · · · · · · · · · · · · · ·	<u>,</u>			<u> </u>	<u>. I</u>		
7. Description	on of Work	Replaced Component	/Part/Appurtenance					
Sheet 1 of 2 2. Plant McGuire Nuclear Station Name 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 Name Address Type Code Symbol Stamp: N/A Authorization No.: Expiration Date: N/A Authorization No.: Expiration Date: N/A Authorization No.: (o) Applicable Construction Code ASME III 1971. Edition, Summer and Winter Address (o) Applicable Edition of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addreda (c) Applicable Section XI Code Case(s) N/A Name of Manufacturer Serial No. Name of Components Name of Components Name of Manufacturer Serial No. Name of Manufacturer Serial No. Namional Board No. 1980 Corrected Yes Purple 1980 Corrected Yes Purple 1980 Corrected Yes No. 1980 Co								
	•	Rophiood Commot uss				بالوارات والمستوين والمستوين		

9. Remarks (Should Include the Following Info	ormanon, as riphneapro).	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	n. (nominal) System Class: ASME Class	<u> </u>
Weld Isometric Drawing No(s).: :MCFI-2	2FW6	
Flow Diagram No(s).:	MCFD-2571-01.00	
Support/Restraint Sketch/Drawing No(s).:		
Other Applicable Information (e.g., W.O. N	No., EC No.) if not included elsewhere on NIS-2 Form:	: N/A
	·	
	Applicable Manufacturer's Data Reports to be	e attached .
	CERTIFICATE OF COMPLIA	ANCE
I certify that the statements made in the report	t are correct and that this conforms to the requirements of	of the ASME Code, Section XI.
Type Code Symbol Stamp N/A		
lype Code Symbol Stamp N/A		
27/4		. ·
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technica	al Specialist	Date January 29 20 13
Owner or Owner's Des	signee, Title	Date January 27 , 20 13
	CERTIFICATE OF INSERVICE INS	SPECTION
I, the undersigned, holding a valid commission	n issued by the National Board of Boiler and Pressure V	Vessel Inspectors and the State or Province of
North Carolina	and employed by Hartford Steam F	Boiler Inspection & Insurance Company of
Connecticut	•	scribed in this Owner's Report during the period
3-28-11 10 1-29-		nd 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.
The contract of the constitution of the state of the stat		
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither t	or nor his employer makes any warranty, expressed or in the Inspector nor his employer shall be liable in any ma	mplied, concerning the examinations and corrective measures described
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither tarising from or connected with this inspection.	the Inspector nor his employer shall be liable in any ma	mplied, concerning the examinations and corrective measures described anner for any personal injury or property damage or a loss of any kind
in this Owner's Report. Furthermore, neither tarising from or connected with this inspection.	the Inspector nor his employer shall be liable in any ma	anner for any personal injury or property damage or a loss of any kind
in this Owner's Report. Furthermore, neither tarising from or connected with this inspection. JF Swan	the Inspector nor his employer shall be liable in any man. Commissions NB	anner for any personal injury or property damage or a loss of any kind
in this Owner's Report. Furthermore, neither tarising from or connected with this inspection.	the Inspector nor his employer shall be liable in any man. Commissions NB	anner for any personal injury or property damage or a loss of any kind
in this Owner's Report. Furthermore, neither tarising from or connected with this inspection. JF Swan	the Inspector nor his employer shall be liable in any man. Commissions NB	anner for any personal injury or property damage or a loss of any kind

1. Owner Duke E	nergy Carolinas, LLC			— Date 8/26/2013		1	
526 So	uth Church Street, Charlotte, N	C. 28201	· · · · · · · · · · · · · · · · · · ·	- Sheet 1 of 2)		
2. Plant	McGuire Nuclear Station			Unit 2			
	12700 Hagers Ferry Road, H	untersville, NC 28078		2054476-17		0 N 1	
3. Work Performed by	Duke Energy Carolinas, LLC Name 526 South Church Street, Ch		Anglis and a second	Type Code Symbol S Authorization	n No.: N	A	D No., GE.)
Name Section XI Code Case(s) N/A Name of Manufacturer Name of M							
 (a) Applicable Const (b) Applicable Edition (c) Applicable Section 	ruction Code ASME III on of Section XI used for Repair on XI Code Case(s) N/A				Add		4 6 7
T	Name of Manufacturer					Removed, or	Stamped
2MCA-NV5921	the second of th	N/A	N/A	N/A	N/A	Installed	No
	,						
						1	
7. Description of Work	Replaced Componen	t/Part/Appurtenance					
Additional Description	Replaced 2 inch flat	bar and welds between	items 4 and 8 on hang	er 2MCA-NV-5921 per EC10)5234.		3
8. Tests Conducted: Hy Description (Optional):	ydrostatic Pneumatic	Nominal Operation	Pressure D Exem	pt 🗹 Other 🗀 Pressu	re F	SI Test Temp.	or

y. Remarks (Should include the Following into	rmanon, as Applicable):	Sheet 2 of 2
	(nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2N	NV250	
Flow Diagram No(s).:	MCFD-2554-04.00	TO THE THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE PROPERT
Support/Restraint Sketch/Drawing No(s).:	2MCA-NV-5921	
Other Applicable Information (e.g., W.O. N	lo., EC No.) if not included elsewhere on NIS-2 Form:	EC105234
The second of th	na ku u kum kin u u	
	Applicable Manufacturer's Data Reports to be at	nached
	CERTIFICATE OF COMPLIAN	YCE
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	The second secon	PRODUCTION OF THE PRODUCT OF THE PRO
Type Code Symbol Stamp N/A		
	and the second s	
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technica	d Specialist	Date August 26 20 13
Owner or Owner's Design		Date 150,555 50
	CERTIFICATE OF INSERVICE INSE	ECTION
I, the undersigned, holding a valid commission	issued by the National Roard of Boiler and Pressure Ve	essel Inspectors and the State or Province of
North Carolina	and employed by Hartford Steam Bo	oiler Inspection & Insurance Company of
Connecticut	The state of the s	ribed in this Owner's Report during the period
7-18-13 . 8-26-		belief, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in a	accordance with the requirements of the ASME Code, Se	ection XI.
By signing this certificate neither the Inspector in this Owner's Report. Furthermore seither the	nor his employer makes any warranty, expressed or imp	plied, concerning the examinations and corrective measures described mer for any personal injury or property damage or a loss of any kind
arising from or connected with this inspection.	is dispector and this employer allest on these as any	
11. F.		والمراجعة والمستراء والمستراء والمستراء والمستراء والمستراء والمستراء والمستراء والمستراء والمستراء
JF Swan forome.	Commissions NB11	1473-NC1524, N-I
Inspector's Signature	National Board, State, Provi	ince, and Endorsements
Date 8-26	20:13	·
Date,		

I. Owner <u>Duke F</u>	inergy Carolinas, LLC			Date 8/26/2013	terra telegrapi de Temperatur de Andréa de A	er-machine seri delen anno	
526 Sc	outh Church Street, Charlotte, No Address	C. 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville. NC 28078	·	2054476-19			
3. Work Performed by	Address Duke Energy Carolinas, LLC Name	· · · · · · · · · · · · · · · · · · ·		Work Order # (or Rep	Stamp: N/		io No., etc.)
wich sprimy his while	526 South Church Street, Characteristics	ariotte, NC 28201-1006	e estergion of the state of the	Authorizati Expiration	27/		
4. Identification of Syste	em NV - Chemical and Volume	Control					Ì
(b) Applicable Edition	truction Code ASME III on of Section XI used for Repair on XI Code Case(s) N/A ponents	/Replacement Activity		lition, Summer and Winter to 1999 and 2000 Addenda	Add	enda, <u>N/A</u>	Code Case
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	NA	80	N/A	1982	Corrected	Yes
2NV359	ITT Grinnell	74-4770-5-6	810	N/A	1975	Removed	Yes
2NV359	BNL Industries	A120803-2-6	N/A	N/A	2012	Installed	Yes
2NV371	ITT Grinnell	74-4770-5-7	811	N/A	1975	Removed	Yes
2NV371	BNL Industries	A120803-2-9	N/A	N/A	2012	Installed	Yes
7. Description of Work	Replaced Component	Part/Appurtenance					
Additional Description	Replaced piping and	valved 2NV359 and 37	71 per EC105234.			الله الله الله الله الله الله الله الله	-
8. Tests Conducted: H	and transport of the control of the	Nominal Operation	Pressure E Exer	npt Other Press	ure <u>57</u> P	SI Test Temp.	105.4 of
Description (Optional):	test performed per procedure N	1 <u>P/U/A/765U/U76.</u>				· · · · · · · · · · · · · · · · · · ·	

9. Remarks (Should Include the Following Infor	rmation, as Applicable):			Sheet $\frac{2}{2}$ of $\frac{2}{2}$	2
	(nominal)	System Class: ASME Clas	<u>83</u>	e a bena med alcare a homomorphish, dha Malladob (s., balhad), if har a nabhada be inseries assumen	
Weld Isometric Drawing No(s).: MCFI-2N	garden and the second second second second second second	d a special and transfer to complete a special deposition of the contract of the			
Flow Diagram No(s).:	MCFD-2554-04.00				
Support/Restraint Sketch/Drawing No(s).:	N/A		4	1	
Other Applicable Information (e.g., W.O. N	o., EC No.) if not include	ed elsewhere on NIS-2 Foru	EC105234	end i nome deletado de colonidado (1556) que en un el trans de 1 m. de creta de 1954, in decentra en 1955, in La colonidad de colonidad (1556) que en	<u></u>
·	Applica	sble Manufacturer's Data Reports to	be attached		
	CEA	RTIFICATE OF COMPLI	ANCE		
l certify that the statements made in the report a	are correct and that this o	onforms to the requirements	of the ASME Code, Section	XI.	
Time Code Sambal Stame	, , , , , , , , , , , , , , , , , , , ,	المراجع والمستعدد والمستعد والمستعدد والمستعد والمستعدد والمستعد والمستعدد والمستعد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد وا	الاستان المستقدم المستند المس	Aborto alte decembro com se desembro estale e con tambo e e e acado.	
Type Code Symbol Stamp N/A		······································		·	
	ستنسب بالمراجع والمراجع الماران والمارا	A contracting the contract of		. Street to the second of	
Certificate of Authorization No. N/A				Expiration Date N/A	: •
		- Definition	and the second of the second o	and the second of the second o	~
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		At There		Date August 26 , 2	20 13
OWING OF THE STREET					
I, the undersigned, holding a valid commission		CATE OF INSERVICE IN		te or Province of	
North Carolina	issued by the tentouni is	Hartford Steam	Boiler Inspection & Insurance	e Company	-e
Connecticut					, Ož
4-30-13 to 8-26-1		•	escribed in this Owner's Repor		.•
measures described in this Owner's Report in a				ormed examinations and taken correc	ctive
			,		
By signing this certificate neither the Inspector	nor his employer makes	any warranty, expressed or	implied, concerning the exam	inations and corrective measures des	scribed
in this Owner's Report. Furthermore, neither the arising from of connected with this inspection.	ne hispector nor his empl	loyer shall be liable in any n	nanner for any personal injury	or property camage or a loss of any	KIIKI
		•	•		
IF Swan / grove ! Mu	an	Commissions NI	B11473-NC1524, N-I	*	
Inspector's Signature		National Board, State, P	rovince, and Endorsements		
8-26	75			·	
inala / // // // // //	n / -				

POSSERVEY-1 GENTFICATS HOLDING DATA REPORT FOR MUCLEAR PUSIFS OR VALVISE? An Session Dr. Co. Translation of the Addition Code, Seeding St. Stylein 1

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(1) For regimely operated values only.

BNL INDUSTRIES, INC. NUCLEAR POWER ASSEMBLY & TEST REPORT SHEET 1: COMPONENT IDENTIFICATION

CUSTOMER: DUKE

DESC: 2" Sch. 40 SW Actuated BV 300#

DATE: DEC 2 0 2012

CONTRACT: 00161951

DWG: ABV-A2-20-0010 R/C

CLASS 2 ITE

0002

':

SALES ORDER #:

A120803

NDE PROCEDURE:

N/R

UNIT: DUKE

DESIGN SPECIEICATION: MCS-1205.28-00-0002 R/1 & ECV-0601.00-00-0003 R/1

ANI REVIEW:

DATE

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SHEET 1 OF 3

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A120803-2- 3	635E	676E	654E-	659E	7S08 (2) 7S10 (2)		RR77	520		
A120803-2-4	655E	676E	654E	659E	7908 (2) 7S10 (2)		RR77			
A120803-2- 5	655E	676E.	654E	659E	7S08 (2) 7S10 (2)		RR77 -	920		
A120803-2- 6	655E-	676E	654E	659E	7508 (2) 7510 (2)		RR77	820		-
A120803-2- 7	655E#	676E	654E	659E	7508 (2) 7510 (2)		RR77	320		
A120803-2-8	655E"	676E	654E	659E 21	750\$ (2). 7510 (2)		RR77	820		
A120803-2-9	6SSE#	676E,	654E	659E	7508 (2) - 7510 (2)	+ sense.	-RR77	B20		
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				Hage of		14				
			2	-						

BNL INDUSTRIES, INC. NUCLEAR POWER ASSEMBLY & TEST REPORT SHEET 2: INSPECTION & TEST RESULTS

CUSTOMER:

DUKE

DESC: 2" Sch. 40 SW Actuated BV 300#

DATE:DEC 2 0 2012

CONTRACT:

001619514

DWG: ABV-A2-20-0010 R/C

ITEM: 0002 OTY: GAGE#PG-34

SALES ORDER # A120803

HYDRO PROCEDURE # HTP-A120803 R/0 TW-4

CLASS 2

DESIGN SPECIFICATION: MCS-1205.28-00-0002 R/1-& ECV-0601.00-00-0003 R/1

											PAGE 2	OF 3
VALVE SERIAL NUMBER	A120803-2-	14		2		3/		4		50.		6 4
PRESUNETETS	STAMP	CUST	STAMP	CUST	STAM	CUST	STALLS.	CUST	WW.	CUST	STAMP	CUST
ACTUAL MIN WALL DIM	.313"	2	312"		.311"		.311°		.313"		.311°	
REQD MIN WALL DIM	.300"		300"		.300°		.300"		.300°		.300"	-
ASSEMBLY INSPECTION	e William		820		820		820		820	Mg (Md. M	820	
HYDRO SHELL TEST 1100 PSI FOR 10 MIN	95	000	88		35		35		85	*	86	
HYDRO DISC TEST 800 PSI FOR 1 MEN	8 5	ž	83		86		. 25		85		85	
HYDRO SEAT TEST 800 PSI FOR 1 MIN	83	¥ .	85		85		86			-	as .	
LOW PRESSURE SEAT TEST 50-100 PSIG FOR 1 MIN W/ AIR	813		813		913		813		B 13		813	
FINAL VIS/DIM INSP	820	State	- B20	1756	820	19/1	320	With the	820	Bolo	820	
STAMPING				S	ee Bel	OW	7-2 ¹					

INSPECTORS STAMP SIGNIFIES ACCEPTANCE & NO LEAKAGE

DATE: 2/2

BNL INDUSTRIES, INC. NUCLEAR POWER ASSEMBLY & TEST REPORT SHEET 2: INSPECTION & TEST RESULTS

CUSTOMER:

DUKE

DESC: 2" Sch. 40 SW Actuated BV 300#

DATEDEC 2 0 2012

CONTRACT: 00161951

DWG: ABV-A2-20-0010 R/C **HYDRO PROCEDURE # HTP-A120803 R/0**

TTEM: 0002 GAGE# PG-34

OTY:

SALES ORDER #: A120803

SEAT LEAK PROCEDURE#

TW-Y

CLASS 2

N/R

DC-29

DESIGN SPECIFICATION: MCS-1205.28-00-0002 R/1 & ECV-0601.00-00-0003 R/1

PAGE 3 OF 3

VALVE SERIAL NUMBER	A120803-2-	7		8 -		9 ===						
Pressure tests	STAMP	Street, Square, or other Designation of the last of th	STAMP	The second second second	STAME	Security and secur	STAMP		STAME	A 50 A50	STAME	
	•	ANI		ANI		ANI		ANI		ANI	and the second second	ANI
ACTUAL MIN WALL DIM	.312"		.312"		.311"					·		
REQ'D MIN WALL DIM	.300"		.300"		.300"							
ASSEMBLY INSPECTION	820		820		820							
HYDRO SHELL TEST	85		85									
1100 PSI FOR 10 MIN			60	-	85							2
HYDRO DISC TEST	88				86		ř		1			
800 PSI FOR 1 MIN			85						1			14
HYDRO SEAT TEST	85		-		85							
800 PSI FOR 1 MIN	63		85		99						-	
LOW PRESSURE SEAT TEST	813		846		B13							
60-100 PSIG FOR 1 MIN W/ AIR			B13	0								
FINAL VIS/DIM INSP	820	Stades	820	Soft	820	100						2
STAMPING				S	ee bel	ow						P.

INSPECTORS STAMP SIGNIFIES ACCEPTANCE & NO LEAKAGE

ANI SIGNATURE:

DATE: 18/20/02

DATE: DEC 2 0 2012

REPORT REVIEWED BY:

DATE: <u>DEC 2 0 2012</u>

Purchase On	der No	161951	المستخيمة	SCD-250	Stock/Cat ID:	882907	ID: 12468
Station M					Part No.: 05B-844		A Shop No.: 0901
Vendor BNL	INDUSTRIES II				Manufacturer: BNL INDU		- L.
item No.	Total	Quan.		UTC No.	Hest No. Lot No.	o./Batch No.	Serial No.
2	9		P opulation	See Attachn	nent for complete listing	of these entries	<u>,</u>
CK'd By S TMG TMG	SAMPLE Pass 9 9 9 9 9 9 9 9 9	Fail Ve	<u> </u>	Perfor Visual/Configurati Dimensional Blactrical Magnetic Weight	Approx. Tolers:	SCD-31	
·		Cali	brated 1	lest, Examination, ar	nd inspection Equipment	Used:	
Instrun	nent Type Caliper	Call	Model	Fest, Examination, an Number 120	ed Inspection Equipment Serial Number MCQUA32758	Used:	Calibration Due 12/4/2013
instrum Diai	nent Type Caliper Ption of Pro	oblem 5	Model 1	Number 120 Ierna Sent To:	Serial Number	Used:	Calibration Due
instrum Diai	ption of Pro	oblem Ston letter has	Problem re	Number 120 Ierna Sent To:	Serial Number MCQUA32758 Travis Brown	\$ V:	Calibration Due

Receivi	ng Inspect	ion Repor	F e' F	orm SCD-311A R	lov.: 10	Page 2 of 2
Purchase Order No	161951	MEDO ID.:	NA .	Stock/Cat ID:	882907	ID: 124658
O A. Roje © B. Acce O C. Teet	inspect Additional Sem Use original CGPA/SCI	B Catalog test require	ments	\$P	•••	
Justification:	Special test requiremen	nts attached				
	ific to PO 161951 has be					
Revision to	om of CGPA Docu CGPA Required: vision to CGPA is NOT imercial Grade		Catalog			
Revision to	SCS Catalog Required:	:				***************************************
	vision to SCS Catalog i ensure deviation letter t		s deleted.			
IV. Approval						
Sponsor: Approved By:	Travis Brown Terry Cox				Date:	2/26/2013

Receiving Inspection Report

Form SCD-311A Rev.: 10 Attachment - UTC Entry Listing

Page 1 of 1

urchase Orde	r No.	161951	MEDS ID.:	NA Stock/Gat ID:	882907	ID: 124658
	Quan.	UTC No.	Heat No.	Lot No./Batch No.	Serial No.	
	1	2009763	NA .	NA .	A120803-2-1	Maria de la composição de
	1	2012877	NA	NA NA	A120803-2-2	
	1	2012878	NA .	NA ** * *	A120803-2-3	
	1	2012879	NA	NA NA	A120803-2-4	
	1	2012880	NA NA	. NA	A120803-2-5	
	1	2012881	NA	NA NA	A120803-2-6	
	1	2012882	NA	NA NA	A120803-2-7	
	1	2012883	NA	NA NA	A120803-2-8	
	1	2012884	NA	NA NA	A120803-2-9	

1. Owner <u>Duke F</u>	inergy Carolinas, LLC			- Date 10/14/2013			
526 Sc	outh Church Street, Charlotte, I	NC, 28201		- Sheet 1 of 2	1		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, H	luntersville, NC 28078		2062428-01		And because the second of the second of the second	
	Address			Work Order # (or Rep.	ir/Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LL	<u>C</u>		Type Code Symbol	Stamp: N	A	
		L.J NG 29201 1006		Authorizati	on No.: N	A	
	526 South Church Street, C Address			Expiration	Date: N	A. Sukeri is	
4. Identification of Syste	WN - Diesel Generator En	gine Air Intake and Exhau	ıst System	No company of the second property of the	· =	to et angle in the trade state of a season of	
(b) Applicable Edition	truction Code ASME III on of Section XI used for Repa on XI Code Case(s) N/A	ir/Replacement Activity		tion, Summer and Winter : 1999 and 2000 Addenda	Add	lenda, <u>N/A</u>	Code Case
6. Identification of Com	ponents						والمراجعة
						Corrected,	ASME Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buik	Removed, or installed	Stamped (Yes or No)
	Name of Manufacturer Duke Energy						
Component		Serial No.	Board No.	Identification	Buik	installed	(Yes or No)
Component 2MCA-VN-5160	Duke Energy	Serial No.	Board No.	Identification N/A	Buik N/A	Removed	(Yes or No)
Component 2MCA-VN-5160	Duke Energy	Serial No.	Board No.	Identification N/A	Buik N/A	Removed	(Yes or No)
Component 2MCA-VN-5160	Duke Energy	Serial No.	Board No.	Identification N/A	Buik N/A	Removed	(Yes or No)
Component 2MCA-VN-5160	Duke Energy Duke Energy	Serial No.	Board No. N/A N/A	Identification N/A	Buik N/A	Removed	(Yes or No)
Component 2MCA-VN-5160 2MCA-VN-5162	Duke Energy Duke Energy Add New Componer	Serial No. N/A N/A	Board No. N/A N/A	N/A N/A	Buik N/A	Removed	(Yes or No)
Component 2MCA-VN-5160 2MCA-VN-5162 7. Description of Work	Duke Energy Duke Energy Add New Componer	Serial No. N/A N/A N/A nt/Part/Appurtenance/Wel- CA-VN-5160 and installe	Board No. N/A N/A d hanger 2MCA-VN-	N/A N/A 5162 per EC108848	Buik N/A N/A	Removed	(Yes or No)

9. Remarks (Should Include the Following Infor	rmation, as Applic	cable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal)	System Class: ASME Class 3	
Weld Isometric Drawing No(s).: N/A		The state of the s	A series of the
Flow Diagram No(s).:	N/A		
Support/Restraint Sketch/Drawing No(s).:	MCSRD-2VN-	351	
Other Applicable Information (e.g., W.O. N	lo., EC No.) if not	included elsewhere on NIS-2 Form: EC10	R84R
			SUPERIOR DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DEL COMPANIA DEL COMPANIA DE LA COMPANIA
		Applicable Manufacturer's Data Reports to be attached	_
		CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report a	are correct and tha	it this conforms to the requirements of the ASI	/IE Code, Section XI.
Type Code Symbol Stamp N/A			en e
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical		- HARM	Date October 10 , 20 13
Owner or Owner's Design	gnee, Title	/	
		RTIFICATE OF INSERVICE INSPECTIO	
I, the undersigned, holding a valid commission	issued by the Nat	ional Board of Boiler and Pressure Vessel Insp	ectors and the State or Province of
North Carolina	· · · · · · · · · · · · · · · · · · ·	and employed by Hartford Steam Boiler Insp	ection & Insurance Company of
Connecticut		have inspected the components described in t	
10-1 10 10-14-	$\frac{23}{2}$, and state	that to the best of my knowledge and belief, th	ne Owner has performed examinations and taken corrective
measures described in this Owner's Report in a	ccordance with th	e requirements of the ASME Code, Section XI	i.
Designation of the series of t	%i- ammlayan	1inalial an	
			ncerning the examinations and corrective measures described ny personal injury or property damage or a loss of any kind
arising from a connected with this inspection.	7/	is the pory or many and an any and an and and and and and an an and an	a) karanan ahari ar kaskani aranga ar
I II F	/		
JF Swan Prove . As	Jan	Commissions NB11473-NC	
Inspector's Signature		National Board, State, Province, and Ea	
1-18-14	~ :		
Date2	20 C		

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

	As Required by the P	rovisions of the ASME, Cod	le Section XI			
nergy Carolinas, LLC			— Date 5/6/2014			
uth Church Street, Charlotte, N Address	C. 28201		- Sheet 1 of 2]		
McGuire Nuclear Station Name			Unit 2			
12700 Hagers Ferry Road, Hi	untersville, NC 28078		2062430-13	***********	THE TAX AND PARTY COMMENTS AND PARTY OF THE	
Address			Work Order # (or Repai	r/Replacement	Organization P.O. No., Job	No., etc.)
Duke Energy Carolinas, LLC Name			Type Code Symbol S	manp.	the state of the s	
526 South Church Street Ch	orlotte NC 28201_1006		Authorizatio	W.140		-3.
Address	MINIC. 110 20201-1000		Expiration	Date: N	A	
m RN - Nuclear Service Water	T	· · · · · · · · · · · · · · · · · · ·			PROFES SERVICES CONTRACTOR OF LOT ALCOHOL-	
ruction Code ASME III n of Section XI used for Repai	r/Replacement Activity	19/71 Edi 1998 Edition with the	tion, Summer and Winter 1999 and 2000 Addenda	Add	lenda, NA (Code Case
n XI Code Case(s) N/A	Contrate the Contrate of Marian Contrate	entin pre i della materia di e i pri i pri e pri i	er til at de en er skilde for er til at att before en er er en er	A.M. 1754 Y DE WARE	Miller S Arms - Mary Surrice Street (January	ì.
onents						
Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Edentification	Year Buik	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Duke Energy	NA	NA	N/A	N/A	Installed	Yes
			The service was a substitute of the	Contract of	<u> </u>	
Add New Componen	/Part/Appartenance/Wel					
	/Part/Appurtenance/Wel	ere. Transport of the state of			CALCORA A P. F. JACOB M. M.	
		781	ot 💆 Other 🗀 Pressu	re P	SI Test Temp.	or
	Address McGuire Nuclear Station Name 12700 Hagers Ferry Road, Hi Address Duke Energy Carolinas, LLA Name 526 South Church Street, Ch Address m RN - Nuclear Service Water ruction Code ASME III on of Section XI used for Repair on XI Code Case(s) N/A conents Name of Manufacturer	nergy Carolinas, LLC uth Church Street, Charlotte, NC, 28201 Address McGuire Nuclear Station Name 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Duke Energy Carolinas, LLC Name 526 South Church Street, Charlotte, NC 28201-1006 Address m RN - Nuclear Service Water ruction Code ASME III on of Section XI used for Repair/Replacement Activity on XI Code Case(s) N/A conents Manufacturer Serial No.	nergy Carolinas, LLC uth Church Street, Charlotte, NC, 28201 Address McGuire Nuclear Station Name 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Duke Energy Carolinas, LLC Name 526 South Church Street, Charlotte, NC 28201-1006 Address m RN - Nuclear Service Water ruction Code ASME III 19/71; Edit of Section XI used for Repair/Replacement Activity 1998 Edition with the m XI Code Case(s) N/A soments Manufacturer National Board No.	McGuire Nuclear Station Name 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Duke Energy Carolinas, LLC Name 526 South Church Street, Charlotte, NC 28201-1006 Address Type Code Symbol S Authorization Expiration RN - Nuclear Service Water ruction Code ASME III 19/71: Edition, Summer and Winter of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda on XI Code Case(s) N/A conents Manufacturer Name of Manufacturer Serial No. Manufacturer Serial No. National Board No. Other Mentification	mergy Carolinas, LLC uth Church Street, Charlotte, NC, 28201 Address McGuire Nuclear Station Name 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Duke Energy Carolinas, LLC Name 526 South Church Street, Charlotte, NC 28201-1006 Address m [RN - Nuclear Service Water ruction Code ASME III nof Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda m XI Code Case(s) N/A Name of Manufacturer Serial No. Bate 1 of 2 One 2 Log 2 Date 5/6/2014 Sheet 1 of 2 Date 1 of 2 In 2 Date 1 of 2 Date 1	nergy Carolinas, LLC path Church Street, Charlotte, NC, 28201 Address McGuire Nuclear Station Name 12700 Hagers Ferry Road, Huntersville, NC 28078 Address Duke Energy Carolinas, LLC Name 526 South Church Street, Charlotte, NC 28201-1006 Address Type Code Symbol Stamp: N/A Symmetric Street, Charlotte, NC 28201-1006 Address RN - Nuclear Service Water ruction Code ASME III 19/71. Edition, Summer and Winter Addenda, N/A on of Section XI used for Repair/Replacement Activity 1998 Edition with the 1999 and 2000 Addenda m XI Code Case(s) N/A soments Manufacturer Name of Manufacturer Serial No. Manufacturer National Board No. Rational Board No. Removed, or Installed

9. Remarks (Should Include the Following Infor	rmation, as Applicable	e):		Sheet 2 of 2
	(nominal)	System Class: ASME Class 3	<u>}</u>	
Weld Isometric Drawing No(s).: N/A	·	indrings- general-verteils submittelisterend Companyoner verbeingsregt schreibergsverspellist verberendsmittel		ONE-NOTION CONTROL CON
Flow Diagram No(s).:	MCFD-2574-03.00	CHARLES THE STATE OF THE STATE	Marian Calabor Maria Paris Santa de Maria de Mar	
Support/Restraint Sketch/Drawing No(s).:	2MCA-RN-3414	en har i eta artean, halladenia eta magazarra apren 15° eta artealezarra de l'arcas	22. Verbander: in the application of the over 1, while he can reconstruction and distribution	TOTAL STREET
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not inch	uded elsewhere on NIS-2 Form:		
	Арр	plicable Manufacturer's Data Reports to be a	uttached	
	C	CERTIFICATE OF COMPLIAN	NCE	
I certify that the statements made in the report a	are correct and that this	is conforms to the requirements of	f the ASME Code, Section	n XI.
	المن المنافذ ا		ر المنافر الإسلام والمنافض في المنافر المنافز	The selection of the property of the party o
Type Code Symbol Stamp N/A				
Certificate of Authorization No. N/A			-	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist	J. W.	Surface and the second of the	- Marie
Owner or Owner's Design		Thank		Date May 6 , 20 14
	CERTI	FICATE OF INSERVICE INS	PECTION	
I, the undersigned, holding a valid commission				tate or Province of
North Carolina	and	employed by The Hartford Steam	m Boiler Inspection and I	nsurance Company of
Connecticut	The second second second second second	ve inspected the components descr	ribed in this Owner's Ren	
1-22-14 to 5-6-1	12/1		•	formed examinations and taken corrective
measures described in this Owner's Report in a		quirements of the ASME Code, Se	ection XI.	
By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the	nor his employer mak se Inspector nor his em	ces any warranty, expressed or importantly and many many many many many many many many	plied, concerning the examiner for any nersonal injur	minations and corrective measures described
arising from or connected with this inspection.	//		mes sor any personal migus	y or property durings or a ross or any anna
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	and the second section of the second	College of Management (College College)		-
	Jan	Commissions NB1		
JF Swan Profile Signature Signature	Jan	Commissions NB1 National Board, State, Provi		
	Jan			

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

		As Required by the	Provisions of the ASME C	ode Section XI			
1. Owner Duke E	nergy Carolinas, LLC			Date 5/6/2014			
526 So	uth Church Street, Charlotte, N Address	VC. 28201		- Sheet 1 of 2			-
2. Plant	McGuire Nuclear Station			Unit 2			
	12700 Hagers Ferry Road, H	luntersville, NC 28078		2062430-21 Work Order # (or Repa	r/Replacement	Organization P.O. No., Jo	sh No. etc.)
3. Work Performed by	Duke Energy Carolinas, LL Name			Type Code Symbol S	Stamp: N/	A	
and the second of the second o	526 South Church Street, C Address			Expiration	Date: N	A	
4. Identification of Syste	m RN - Nuclear Service Wat	er					
(b) Applicable Edition	ruction Code ASME III on of Section XI used for Repa	ir/Replacement Activity		dition, Summer and Winter te 1999 and 2000 Addenda	Add	enda, N/A	Code Case
(c) Applicable Section	n XI Code Case(s) N/A	·					•
6. Identification of Comp	onents						j
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
RN Piping	Duke Energy	N/A	60	N/A	1982	Corrected	Yes
2RN448	Crane	E2556	,N/A	N/A	2013	Installed	Yes
					<u> </u>	1	
			4				
7. Description of Work	Add New Componer	nt/Part/Appurtenance/We	eld.				
Additional Description	Added piping and v	valve 2RN448 per EC 10	8781	na Culphin i na martini met pezu se i i den i fert si never i i fizik finetrogia mentri.		The stage of the s	
8. Tests Conducted: Hy	ydrostatic Pneumatic Test performed per procedure		Pressure Exer	mpt Other Pressu	re 91 P	SI Test Temp.	50 °F
rescribiton (Abnomm):		· · · · · · · · · · · · · · · · · · ·					

9. Remarks (Should Include the Following Information, as Ap	pplicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 8 & 10 in. (nominal)	System Class: ASME Class 3	•
Weld Isometric Drawing No(s).: MCFI-2RN205	ANY SET OF STREET SET OF STREE	
Flow Diagram No(s).: MCFD-2574	4-03.00	The second secon
Support/Restraint Sketch/Drawing No(s).: N/A	Congress of Control of	
Other Applicable Information (e.g., W.O. No., EC No.) if	not included elsewhere on NIS-2 Form:	THE PROCESSION AND THE SECOND CONTROL OF THE SECOND
The second secon	ANY REPORT OF THE THE 2 THE PROOF STORY CONTROL OF THE PROOF STORY OF	THE CONTRACT OF MINISTER CATCOLS AND AN ADMINISTRATION OF THE STATE AND ADMINISTRATION OF PRINCIPLES
	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	3 *
I certify that the statements made in the report are correct and	that this conforms to the requirements of the ASME Code	e, Section XI.
Type Code Symbol Stamp N/A	the administration of Market and Market for analysis and announcement of the Committee of the Astronomy of the Committee of the Astronomy of the Committee of t	TOTAL TO SET SECURITY WE WIND THE THE THE SECURITY WAS TO SECURITY OF THE SECU
Constitution and the second se		
N/A	A STATE OF THE PERSON NAMED IN THE PERSON NAME	Expiration Date N/A
Certificate of Authorization No. N/A		Expiration Date (Adda)
Signed FL Grass, Quality Assurance Technical Specialist	A. Mars	Date May 6 20 14
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 a	nd the State or Province of
North Carolina	and employed by The Hartford Steam Boiler Inspecti	ion and Insurance Company of
Connecticut	have inspected the components described in this Own	
8-20-13 to 5-6-14, and st	tate that to the best of my knowledge and belief, the Owne	
measures described in this Owner's Report in accordance with	h the requirements of the ASME Code, Section XI.	- 1
By signing this certificate neither the Inspector nor his employ		de accession de la companie de la co
in this Owner's Report. Furthermore, neither the Inspector no		
arising from or connected with this inspection		
- I		er vinnstammen terminaminner i er i er i en
JF Swan Profes Wan	Commissions NB11473-NC1524, N	**************************************
inspector's Signature.	National Board, State, Province, and Endorsement	is .
Date 5-6, 20/4		
Daw (, ~~	·	

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

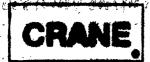
					•		
1.	Manufactured end	certified by <u>CRAME</u>	lucteer, Inc.	660 Remington Be	oulsward. Bolling phirase of N Corul	porock, R. 60440	
				• •			
· 2 .	Manufactured for	Duke Energy Carolina	B, LLC POB	OX 37920 Cheriotte (reme and se	LOW O PURCHASE		
3.	Location of installa	ation McGuire Nuclear	Station 132	25 Hagers Ferry Re	s Hwy 73 Hunts	rsville, NC 28071	D-8985
				(rain			
4.	Model No., Series	No., or Type 47 1/2	UF - SPL	Drawing	CC03982	Rev. C	. CRN NA
5 .	ASME Code, Sed	tion ili, Civision 1:	1998 (edian)	2000 (addurde de	-	3 (clast)	N/A (Code Case so.)
6.	Pump or valve _	Valve		lominal inlet size	8"	Outlet size	<u> </u>
7.	Material:			,		. /	
•	(a) valve Sody (b) pump Casti		Bonnet	8A216 WCB	Disk S/ Bolling	1351 CF8M	Boiling See Page 2
	(a)	(b)	•	(c)	· (d)		(0)
	Cert.	Nat'l	134	odyłCasing	Bonnet/C		Disk
•	Holder's Serial No.	Board No.		Serial No.	Seria No.		Seriet No.
	E2598	N/A		E2557	E2560		E2562
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2022730

^{*} Supplemental information in the form of lists, exactnow, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on thi Data Report is included on each sheet, '(5) 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

	Certificate Holder's Sertal No. E2558
8 Design conditions 135 PSR (orthogun	
9. Cold working pressure	285
10. Hydrostatic test 450	Diek differential test pressure 315
7	S Gr. 87, Heat Number NF 11203443; Trace Code 8G37
Bonnet Stud Nuts : SA196 Gr. 2H Pol/ 00166309 Po tem No. 0002	Heat Number 5082414, Trace Code 8G38
CM Se# 41866-01	and replication.
	6.2
	CERTIFICATION OF DESIGN
Design Specifications certified by	Jesse M. Hawkins P.E. State NC Res. no. 20159
Design Report certified by	N/A P.E. State N/A Reg. rio. N/A
	CERTIFICATE OF COMPLIANCE
We certify that the statements made in the of the ASME Code, Section III, Division 3.	s report are correct and that this pumb or value conforms to the rules for construction
N Certificate of Authorization No.	N-2899 Expires September 9, 2014
Date <u>6/30/13</u> Name	GRANE Nuclear, inc. Signed CoCoc (pulsonal regretative)
	CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commit MSB CT	ssion issued by the National Goard of Solitir and Pressure Vesset and employed by
have inspected the pump; or valve, descri-	
with the ASME Code, Section iti, Division	
companent described in this Date Report.	ector nor his employer makes any warranty, expressed or implied, concerning the Furthermore, neither the inspector nor his employer shall be liable in any manner for a loss of any hind arising from or connected with this inspection.
Date 6/30/13 Signed Warm	Commissions NB 11557 ABIN (National Second Municipal and Endorsompti) and Wards



CRANE NUCLEAR

669 REMINITON BOULEVARD

BOLINGBROOK, ILLINOIS 60440

*Corrected CERTIFICATE OF COM

NO.:

CUSTOMER: Duke Energy Carolinas, LLC

CUSTOMER P.O.

00166309 Rev. 002

PLANT SITE: McGuire Nuclear Station

CNI ORDER MUMBER:

41856-01

CODE EDITION/ ASME Section III 1998 Edition

MCS-1205.22-00-0003 Rev. 001

ADDENDA, CL:

2000 Addenda, Ciges 3

SPECIFICATION: ECV-0601.00-00-0003 Rev. 002*

ITEM

PART NUMBER

DESCRIPTION

0002

CC03962

& Class 150 Gate Valve

DE Hem Number: 1MV-557

Assembly Drawing: CC03962 Rev. C

Serial Number: E2558

Ref.: Design Report DR-118 Rev. 1

Decumentation provided for the following: C-of-C, Code Date Report, Hydrostatic Test Report, Minimum Wall Records, CMTR's, Heat Treat Records, Weld Repair Records & Weld Material CMTR's, MT & PT Reports

The above has been supplied in accordance with the CRANE Nuclear Inc. NQAM 11th Edition Rev. 1 dated 12/07/11 and 'N' Certificate of Authorization Number N-2899, which expires September 09, 2014. This also certifies that materials used, and all processing and manufacturing of part(s) identified, conform to the specifications, drawings and other technical requirements set forth in the subject purchase order including all codes, tests, standards and quality assurance requirements invoked therein.

Quality Assurance Engineer

Purchase Order No	166309 SCD-	150 Steck/Cat ID:	593794 ID: 1
	MEDO D.: NA	Part 66: 1MV-557	QA Shop No.: 06
Vendor CRANE NUCL	EAR INC	Menufacturer CRANE NUCL	EARING /
Item No. Total	Quan. UTC No.	Heat No. Lot No./Bu	teh No. Serial No.
2 1	1 2022730	NA NA	E2556 /
Description: VALVE,	GATE, BOLTED BONNET, 8", 1MV-557, 150	LB, MANUAL, BW SCH 40, CARE	ION STL, SA-218, WCB, SS
		Exemination, and Testing riormed - Specify	Procedures/Standard Used
CGW 1		retion/Workmenship	SCD-311 Rev.: 12
CGW 1	1 0 D D Dimensional	Approx. Tolerence	1033 PANEL
CGW 1	V 0 D Magnetic	9 Yes O No	
COW	1 0 D all stagnette Weight	⊕ 100 ○ NO	
	Pressure:		3
	Chem. Analysis		QA Condition: [
 - -	Physical Prope	riies	Commercial Grade
			U Over-Check
Comments			
	Calibrated Yest, Exemination,	and Inspection Equipment Use	d:
Instrument Type	Wodel Humber	Seriel Number	Calibration Du
1. Description of	Problem & Fratiens Sent To		8 V:
Description of vendor e-mailed correct			8 V:
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vendor e-mailed correct	ed c of c		
		FAX 6:	8 V:

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1. Owner <u>Duk</u>	e Energy Carolinas, LLC	As Acquires by the	27 7	Date 4/21/2014					
526	South Church Street, Charlotte,	NC. 28201		— Sheet 1 of 2					
2. Plant	McGuire Nuclear Station Name			Unit 2					
	12700 Hagers Ferry Road. Addres			2069269-15 Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	ob No., etc.)		
3. Work Performed b	3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name		••	Type Code Symbol Stamp: N/A					
	526 South Church Street. (6	Authorization Expiration	51/	and a substance of the			
4. Identification of Sy	vstem VS - VS - Station Air Sy	stem - Station Air System	(High Pressure)	CONTRACTOR CONTRACTOR STORE	Carrier Commence of the				
(b) Applicable Ed	instruction Code ASME III lition of Section XI used for Rep	air/Replacement Activity		dition, Summer and Winter ne 1999 and 2000 Addenda	Add	lenda, N/A	Code Case		
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)		
see section 7	Duke Energy	N/A	NA	N/A	NA	Corrected	Yes		
))			
						1			
				** (SEC 302-6) ************************************		1			
7. Description of Wo	rk Replaced Compone	nt/Part/Appurtenance							
Additional Descript	ion Replaced u bolt ar	nd muts on hanger 2MCA	-S-V8-500-01-C	e austrum (1780) der vers vinnskeprandere beraum (1882) – der detter verse dibber	and the contract	de al com para una montandar den trat material demonstra de la			
8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Operation	Pressure Exer	mpt Other Pressu	reP	SI Test Temp.	o F		
Description (Optiona	1):								
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O	formation, as Applicable):	Sheet 2 of 2
	n. (nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: n/A		
Flow Diagram No(s).:	N/A	
Support/Restraint Sketch/Drawing No(s).:	2MCA-S-VS-500-01-C	
Other Applicable Information (e.g., W.O. N	No., EC No.) if not included elsewhere on NIS-2 Form:	AND
	der die stellen betreiten aus der	
	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report	t are correct and that this conforms to the requirements of the AS	ME Code, Section XI.
Type Code Symbol Stamp N/A		THE SECTION OF A TIME STREET, AND STREET, AND A SECTION OF A SEC
Certificate of Authorization No. N/A	ACTION OF SUPPLY REPORTED AND ACTION OF THE PROPERTY CONTRACTOR AND ACTION OF THE ACTI	Expiration Date N/A
And her we have a second	and the second	process of the branch and the control of the contro
Signed FL Grass, Quality Assurance Technica		Date April 21 , 20 14
Ourse of burse's them	cionee Title /	
Owner or Owner's Design	segment and the segment of the segme	
OWIRT OF OWING & LACK		
	CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission	CERTIFICATE OF INSERVICE INSPECTION In issued by the National Board of Boiler and Pressure Vessel Inservice Inservi	spectors and the State or Province of
I, the undersigned, holding a valid commission North Carolina	CERTIFICATE OF INSERVICE INSPECTION	spectors and the State or Province of
I, the undersigned, holding a valid commission North Carolina Connecticut	certificate of inservice inspects in issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in	spectors and the State or Province of r Inspection and Insurance Company of this Owner's Report during the period
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22-	certificate of inservice inspects in issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in	r Inspection and Insurance Company of this Owner's Report during the period the Owner has performed examinations and taken corrective
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22-	CERTIFICATE OF INSERVICE INSPECTS In issued by the National Board of Boiler and Pressure Vessel Ins and employed by The Hartford Steam Boiler have inspected the components described in	r Inspection and Insurance Company of this Owner's Report during the period the Owner has performed examinations and taken corrective
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22 measures described in this Owner's Report in a	certificate of inservice inspects in issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in accordance with the requirements of the ASME Code, Section X	this Owner's Report during the period the Owner has performed examinations and taken corrective
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22- measures described in this Owner's Report in a By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither the	CERTIFICATE OF INSERVICE INSPECTS In issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in accordance with the requirements of the ASME Code, Section X or nor his employer makes any warranty, expressed or implied, counter the Inspector nor his employer shall be liable in any manner for a	this Owner's Report during the period the Owner has performed examinations and taken corrective G.
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22 measures described in this Owner's Report in a By signing this certificate neither the Inspector	CERTIFICATE OF INSERVICE INSPECTS In issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in accordance with the requirements of the ASME Code, Section X or nor his employer makes any warranty, expressed or implied, counter the Inspector nor his employer shall be liable in any manner for a	this Owner's Report during the period the Owner has performed examinations and taken corrective G.
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22- 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.	certificate of inservice inspects in issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in accordance with the requirements of the ASME Code, Section X or nor his employer makes any warranty, expressed or implied, country the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer nor his employer shall be liable in any manner for a few control of the Inspector nor his employer n	this Owner's Report during the period the Owner has performed examinations and taken corrective (I). oncerning the examinations and corrective measures described any personal injury or property damage or a loss of any kind
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22 measures described in this Owner's Report in a By signing this certificate neither the Inspector in this Owner's Report. Furthermore, neither that arising from or connected with this inspection. JF Swan Drove C. L.	CERTIFICATE OF INSERVICE INSPECTION In issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in accordance with the requirements of the ASME Code, Section X or nor his employer makes any warranty, expressed or implied, conthe Inspector nor his employer shall be liable in any manner for a commissions (NB11473-NC)	this Owner's Report during the period the Owner has performed examinations and taken corrective G. concerning the examinations and corrective measures described any personal injury or property damage or a loss of any kind
I, the undersigned, holding a valid commission North Carolina Connecticut 4-18-14 to 4-22- 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.	certificate of inservice inspects in issued by the National Board of Boiler and Pressure Vessel Inservice and employed by The Hartford Steam Boiler have inspected the components described in accordance with the requirements of the ASME Code, Section X or nor his employer makes any warranty, expressed or implied, country the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer shall be liable in any manner for a few control of the Inspector nor his employer nor his employer shall be liable in any manner for a few control of the Inspector nor his employer n	this Owner's Report during the period the Owner has performed examinations and taken corrective G. concerning the examinations and corrective measures described any personal injury or property damage or a loss of any kind

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

	***	As Required by the P	rovisions of the ASME Cod	e Section XI			
1. Owner <u>Duke En</u>	ergy Carolinas, LLC			- Date 5/6/2014			
526_Sou	th 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		2086845-02		**************************************	
	Address			Work Order # (or Repair	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC			Type Code Symbol S	amp: N/	A	
				Authorization	No.: N/	A	
·	526 South Church Street, Ch. Address	ariotte, NC 28201-1006		Expiration I	Date: N/	A	
4. Identification of System	NV - Chemical and Volume	e Control	material and service of the constitution				
5. (a) Applicable Constr	COMPANY AND ADDRESS OF A STREET	erginanty an internity color or have, seen type group, per tier in a name of decembers.		tion, Summer and Winter	Add	enda, <u>N/A</u>	Code Case
	n XI Code Case(s) N/A	Trumpers - North Constitution (Administration Section Constitution Con	CONTRACTOR OF THE STATE OF THE				
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)
2NV248	Kerotest	ATH7-4	38542	NA	14991	Corrected	Yes
			use este es				
7. Description of Work	Replaced Component	/Part/Apourtenance					
Additional Description	Replaced disc in val	ve 2NV248	er manner a men unan alla lancer der palenter er entande der er verbetet. Her	ekstrink erindsens ein ense "seitsechi neutok ediekstook" - «elektrootstoosi	Water Control	O'CHIN (20) (Santagia (2) ener (SEC)entino, etc Intelligio etc.	
8. Tests Conducted: Hy	drostatic Pneumatic	Nominal Operation P	ressure 🗹 Exemp	ot 🗀 Other 🗀 Pressur	P	SI Test Temp.	oF
Description (Optional):				THE RESIDENCE OF SHEET STATE OF THE STATE OF			

9. Remarks (Should Include the Following Inform	,,		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
The second secon	TWY THE AMERICAN PART A PERSONNEL PROGRAMMENT AND AND ADMINISTRATION OF THE PARTY AFTER A THREE A	ass: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2N	IV294		
Flow Diagram No(s).:	MCFD-2554-03.00	Carlotte Carlotte Management Hamman Carlotte Car	
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhe	re on NIS-2 Form:	
	Applicable Manufactu	urer'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 to	the requirements of the ASME Code, Secti	ion XI.
Type Code Symbol Stamp N/A	permit immensionales permit minimities (in permit et al.) et propoleci ella etc. entrello une julica ella etc.	t - 1 topi, and any group and their terminational demokratical and parameters are the majority to the property () in	TOOR THE THE CONTROL OF STREET PROPERTY AND ASSESSMENT OF STREET PROPERTY ASSESSMENT ASSESSMENT OF STREET PROPERTY ASSESSMENT OF STREET PROPERTY ASSESSMENT OF STREET PROPERTY ASSESSMENT A
Certificate of Authorization No. N/A			Expiration Date N/A
El Como Cualin Agurance Tachnical	a de la sur companya de la sur de la	The formation of the second	36.2
Signed FL Grass, Quality Assurance Technical Owner or Owner's Design		Their	Date May 6 , 20 14
	CEDITIFICATE OF	INSERVICE INSPECTION	
I, the undersigned, holding a valid commission i	issued by the National Board of Bo	piler and Pressure Vessel Inspectors and the	State or Province of
North Carolina	and employed by	The Hartford Steam Boiler Inspection and	i Insurance Company of
Connecticut		he components described in this Owner's Re	
4-2-14 ln 5-13-1	1111	•	
measures described in this Owner's Report in ac	and state that to the best of coordance with the requirements of	my knowledge and bener, me owner mas parties ASME Code. Section XI.	performed examinations and taken corrective
	-		
By signing this certificate neither the Inspector r	nor his employer makes any warrar	aty, expressed or implied, concerning the ex	aminations and corrective measures described
in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	e Inspector nor his employer snau	be liable in any manner for any personat my	ury or property damage or a loss of any kind
	,		•
IF Swan propo / Moro	E.	Commissions NB11473-NC1524, N-I	Pall Charles Schallescherolisterinates (CCS); prints yer iş yer alıcıla schallescherolisterini yer print c section
Inspector's Signature		National Board, State, Province, and Endorsements	
Date 5-13 - 20	0 <i>Z</i>		

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

1. Owner	Duka Er	ergy Carolinas, LLC	As Required by the	Provisions of the ASME Cod	·	· ·		
1. Owner _		th Church Street, Charlotte,	NIC 28201	· · · · · · · · · · · · · · · · · · ·	Date 5/6/2014			
-	320 Sut	Address	NC. 20201		- Sheet 1 of 2			
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, I	Juntersville, NC 28078		2095049 - 04			
		Address	•		Work Order # (or Repair	Replacement	Organization P.O. No., Jol	No., etc.)
3. Work Perfe	ormed by	Duke Energy Carolinas, LI	<u>c</u>		Type Code Symbol S	tamp: N/	A	
		-			Authorization	75.77	A	
		526 South Church Street, C Addres			Expiration	13.77	A	
4. Identificati	ion of System	N SV - Main Steam Vent to	Atmosphere		Description of the second of	TANKE TO SERVICE THE SERVICE T		
		uction Code ASME III n of Section XI used for Repo	nir/Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A	Code Case
(c) Applic	cable Section	n XI Code Case(s) N/A						:
6. Identificati	ion of Comp	onents						,
Name Compo		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
I		Marie di Marieratura		DOUGH INO.	identification	Buik	1	. I
2SV1		Crosby	N56937-00-0001	31	N/A	1974	Corrected	Yes
2SV1		er - to Manage Etabase 81 as a sur see a si		to the second control of the second control	Fig. 18 Ann John St.	111	Corrected	Yes
2SV1		er - to Manage Etabase 81 as a sur see a si		to the second control of the second control	Fig. 18 Ann John St.	111	Corrected	Yes
2SV1		er - to Manage Etabase 81 as a sur see a si		to the second control of the second control	Fig. 18 Ann John St.	111	Corrected	Yes
28V1		er - to Manage Etabase 81 as a sur see a si		to the second se	Fig. 18 Ann John St.	111	Corrected	Yes
2SV1		er - to Manage Etabase 81 as a sur see a si		to the second se	Fig. 18 Ann John St.	111	Corrected	Yes
2SV1 7. Description	n of Work	Crosby		to the second se	Fig. 18 Ann John St.	111	Corrected	Yes
		Crosby	NS6937-00-0001	to the second se	Fig. 18 Ann John St.	111	Corrected	Yes
7. Description	Description	Replaced Componer	NS6937-00-0001 pt/Part/Appurtenance alve 2SV1.	31	N/A	1974	Corrected SI Test Temp.	Yes
7. Description Additional I	Description hucted: Hy	Replaced Componer	nt/Part/Appurtenance		N/A	1974		

The second secon

9. Remarks (Should Include the Following Information	n, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 36 in. (nomi	nal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2SV9		
Flow Diagram No(s).:	FD-2593-01.03	TO THE BEST OF THE PROPERTY OF
Support/Restraint Sketch/Drawing No(s).: N/A	Park Laryand 2004 - Congressor - Congressor Consumeration Consumeration Consumeration - 4000	
Other Applicable Information (e.g., W.O. No., EC	No.) if not included elsewhere on NIS-2 Form:	
		. Segretar Symmetry (ministration of ministration of the segretary is program, in the Servet is on the Servet in the Servet Search of the Servet is servet in the Servet i
	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are cor	rect and that this conforms to the requirements of the ASME Co	ode, Section XI.
Type Code Symbol Stamp N/A	performance and the second control of the se	
in Marine and the second and the sec		
Certificate of Authorization No. N/A	and the state of the second se	Expiration Date N/A
Certificate of Attinorization No.		Explicator Date
Signed FL Grass, Quality Assurance Technical Speci	alist To then	Date May 6 , 20 14
Owner or Owner's Designee, Ti		
	CERTIFICATE OF INSERVICE INSPECTION	
manufactures and approximate the second seco	by the National Board of Boiler and Pressure Vessel Inspector	s and the State or Province of
North Carolina	and employed by The Hartford Steam Boiler Inspe	ection and insurance Company of
Connecticut	have inspected the components described in this O	wner's Report during the period
4-60-14 to 5-13-14	, and state that to the best of my knowledge and belief, the Ow	vner has performed examinations and taken corrective
measures described in this Owner's Report in accorda	ince with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor hi	s employer makes any warranty, expressed or implied, concern	ing the examinations and corrective measures described
in this Owner's Report. Furthermore, neither the Insp	pector nor his employer shall be liable in any manner for any pe	rsonal injury or property damage or a loss of any kind
arising from or connected with this inspection.		·
JF Swan 1 erore 1. lwa	Commissions NB11473-NC1524	NI
Inspector's Signature	National Board, State, Province, and Endorsen	ments
	A /	
Date	<i>*</i>	

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

1. Owner <u>Duke</u>	Energy Carolinas, LLC	As Required by the	Provisions of the ASME Co	nde Section XI Date 4/30/2014			•
526 S	South Church Street, Charlotte, 1 Address	NC, 28201		- Sheet 1 of 2]		
2. Plant	McGuire Nuclear Station			Unit 2			
	12700 Hagers Ferry Road, H	luntersville_NC 28078		2098293-06 Work Order # (or Rens	ir/Replacement	Organization P.O. No., J	ob No. etc.)
3. Work Performed by	Duke Energy Carolinas, LL Name 526 South Church Street, C Address	harlotte, NC 28201-1006		Type Code Symbol Authorization Expiration	Stamp: Non No.: No	'A 'A	
(b) Applicable Edit	struction Code ASME III ion of Section XI used for Repa ion XI Code Case(s) N/A	errosa, mengenera orang mengenerangan kananangan kananan san		lition, Summer and Winter te 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
6. Identification of Con			,				
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)
2NV7	Walworth	A1853	.608	Í N/A	1976	Corrected	Yes
							# E _ E
			Andread of States at Administration				
7. Description of Work	Replaced Componer	at/Part/Appurtenance			ne te militaria di permenenta		
Additional Description	n Replaced bolting m	aterial in body to bonne	on valve 2NV7	ana territo de los demendos de la terresconer dell'especia del energiale	ATRICTED CON ATM	فالمحتصف المستحدث المستحدث والمستحدث والمستحدث والمستحدث المستحدث المستحدث المستحدث المستحدث المستحدث المستحدث	¥.
8. Tests Conducted: I Description (Optional):	Test performed per procedure	entri tar ar less ann anner l'arment de la Figure de la company	Pressure E Exen	npt Other Pressu	re F	SI Test Temp.	oF

9. Remarks (Should Include the Following Information	ition, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 3 in. (no	ominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2NV1	189	
Flow Diagram No(s).:	MCFD-2554-01.02	OFFICIAL STATE COMMISSION OF THE STATE OF TH
Support/Restraint Sketch/Drawing No(s).: N	V/A	
Other Applicable Information (e.g., W.O. No., I	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 o	correct and that this conforms to the requirements of the ASMI	E Code, Section XI.
Type Code Symbol Stamp N/A		The comment of the co
Certificate of Authorization No. N/A	A CONTRACTOR OF A CONTRACTOR OF THE CONTRACTOR O	Expiration Date N/A
Cettificate of Audiorization No.		andresses a see The Thirty of
Signed FL Grass, Quality Assurance Technical Sp	pecialist IKhau	Date April 30 , 20 14
Owner or Owner's Designee,	, Title	
	CERTIFICATE OF INSERVICE INSPECTION	
THE PROPERTY OF THE PROPERTY OF PROPERTY OF THE PROPERTY OF TH	used by the National Board of Boiler and Pressure Vessel Inspe	ectors and the State or Province of
North Carolina	and employed by The Hartford Steam Boiler In	aspection and insurance Company of
Connecticut	have inspected the components described in thi	is Owner's Report during the period
4-4-14 10 4-30-14	, 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 accord	ordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor	r his employer makes any warranty, expressed or implied, conc	cerning the examinations and corrective measures described
in this Owner's Report. Furthermore, neither the Ir	inspector nor his employer shall be liable in any manner for any	y personal injury or property damage or a loss of any kind
arising from or connected with this inspection.		
	NR11473-NC1	524 N.I
JF Swan grove Inspector's Signature	Commissions NB11473-NC1	
IF Swan grove F. Lwa		

1. Owner	Duke Energy Carolinas, LL	C	·	- Date 4/30/2014			
	526 South Church Street, C Address	Charlotte, NC, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear	<u>Station</u> Name		Unit 2			•
	12700 Hagers Fen	ry Road, Huntersville, NC 28078		2099275-02	Ter of Schedulpper, School Self-Self-Self-Self-Self-Self-Self-Self-		
		Address		Work Order # (or Repa	ir/Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Perform	ned by <u>Duke Energy Car</u>	olinas, LLC Name		Type Code Symbol	4	- C. V. S. S. V. V. S. V.	
	526 Saudi Chana	- Camera Charless - NC 20201 101	ne.	Authorization	on No.: N	A	
	520 Soun Churc	h Street, Charlotte, NC 28201-100 Address	70	Expiration	Date: N/	A	
4. Identification	of System NV - Chemical	and Volume Control		And the second s		e entre community and and anomalisms	
	ole Construction Code ASM ole Edition of Section XI use	IE III d for Repair/Replacement Activit		tion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A	Code Case
	ole Section XI Code Case(s)	Calebratical in materials of the second control of the second cont					
6. Identification	of Components						
Name of		Manufacturer	National	Other	Year	Corrected, Removed, or	ASME Code Stamped
Componer	nt Name of Manuf	0 1111	Board No.	Identification	Built	Installed	(Yes or No)
Componer 2NV246	Name of Manuf	0 1111	Board No. 3488	Identification	Built 1982	Installed Corrected	Yes or No)
y	Name of Manuf	acturer Serial No.					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Name of Manuf	acturer Serial No.					
y	Name of Manuf	acturer Serial No.					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Name of Manuf	acturer Serial No.					
y	Name of Manuf	acturer Serial No.					
y	Name of Manuf Kerotest	acturer Serial No.					
2NV246	Name of Manuf Kerotest of Work Replaced	ACUSE Serial No. ABH13-14	3488				
7. Description o Additional Des	Name of Manuf Kerotest Name of Manuf Kerotest Replaced Replaced Replaced Reted: Hydrostatic Page	ABH13-14 Component/Part/Appurtenance	3488 2NV246	N/A	1982		

Remarks (Should Include the Following Information)	mation, as Applicable):	Sheet 2 of 2
	(nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: MCFI-2N	V293	
Flow Diagram No(s).:	MCFD-2554-03.00	
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:	
	Applicable Manufacturer's Data Reports to be attached	
	-	
	CERTIFICATE OF COMPLIANCE	
If certify that the statements made in the report at \mathbf{r}	re correct and that this conforms to the requirements of the ASI	ME Code, Section XI.
Type Code Symbol Stamp N/A		
	<u> </u>	
Certificate of Authorization No. N/A	n vin galin ing nin da nyakhi zman ni a isa anaka vi szawni i a ni mnoszna nijensky.	Expiration Date N/A
Celtificate of Audionzadon 110.		confirmation of some finishment of the second
Signed FL Grass, Quality Assurance Technical	Specialist There	Date April 30 20 14
Owner or Owner's Design		
	CERTIFICATE OF INSERVICE INSPECTIO	N
I, the undersigned, holding a valid commission i	issued by the National Board of Boiler and Pressure Vessel Inst	pectors 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 t	
3-30-14 4-30-	4, and state that to the best of my knowledge and belief, the	
measures described in this Owner's Report in ac	coordance with the requirements of the ASME Code, Section X	пе Очист на репоника сланицикого али школ основаче 1.
-	•	
	nor his employer makes any warranty, expressed or implied, co	
in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	the Inspector nor his employer shall be liable in any manner for a	iny personal injury or property camage or a loss of any killed
JF Swan Drove . he	Commissions NB11473-NC	C1524, N-I
Inspector's Signature	National Board, State, Province, and E	indorsements
11120		
Date $4-30$	~F##	

1. Owner <u>Duke</u>	Energy Carolinas, LLC			- Date 4/10/2014	**************************************		
526 S	outh Church Street, Charlotte, N Address	C, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, H	intersville, NC 28078		2099364-20			
	Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC	<u> </u>		Type Code Symbol Sta	mp: N/	A	
				Authorization	No.: N/	A	
	526 South Church Street, Ch Address	arlotte, NC 28201-1006		Expiration D	ate: N/	A	
4. Identification of Sys	tem NV - Chemical and Volum	e Control					The state of the s
	struction Code ASME III ion of Section XI used for Repair	r/Replacement Activity		ion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A	Code Case
(c) Applicable Sect	ion XI Code Case(s) N/A						
6. Identification of Cor	nponents				-		
Name of Component		Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
	Name of Manufacturer	Jenar No.	2020.10.		1	<u> </u>	
2MCA-NV-7020	Name of Manufacturer Duke Energy	N/A	N/A	N/A	N/A	Corrected	Yes
2MCA-NV-7020	egg, saw a sawa (talaba) e aritsake		4 1 = May 2 d March 1997	the second state and second se		Corrected	Yes
2MCA-NV-7020	egg, saw a sawa (talaba) e aritsake		4 1 = May 2 d March 1999	the second state and second se		Corrected	Yes
2MCA-NV-7020	egg, saw i sala galakka e arawa		4 1 = May 2 d March 1999	the second state and second se		Corrected	Yes
2MCA-NV-7020	egg, saw i sala galakka e arawa		4 1 = May 2 d March 1999	the second state and second se		Corrected	Yes
2MCA-NV-7020	egg, saw i sala galakka e arawa		4 1 = May 2 d March 1999	the second state and second se		Corrected	Yes
2MCA-NV-7020 7. Description of Work	Duke Energy	N/A	4 1 = May 2 d March 1999	the second state and second se		Corrected	Yes
	Duke Energy Replaced Component	N/A	N/A	the second state and second se		Corrected	Yes
7. Description of Work	Replaced Component	N/A /Part/Appurtenance	N/A 20	NA	N/A	Corrected SI Test Temp.	Yes

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Infor Component Line Size: 3	rmation, as Applicable): (nominal) System Class: ASME Class 2	Sheet 2 of 2
Weld Isometric Drawing No(s).: N/A	Circumstay System Canada Sanata S	
Flow Diagram No(s).:	MCFD-2554-02.00	
Support/Restraint Sketch/Drawing No(s).:	2MCA-NV-7020	
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	are correct and that this conforms to the requirements of the ASM	IE Code, Section XI.
Type Code Symbol Stamp N/A		PROBLEM THE CALL STREET OF STREET OF STREET, THE WORLD, THE STREET STREET OF STREET OF STREET OF STREET OF STREET
Certificate of Authorization No. N/A	respondent for the second seco	Expiration Date N/A
	and a series of the series of	nd address to the common of th
Signed FL Grass, Quality Assurance Technical		Date April 10 , 20 14
Office of Office County	pec, rue	
	CERTIFICATE OF INSERVICE INSPECTION	N .
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vessel Inspe	ectors 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 the	his Owner's Report during the period
4-1-14 to 4-14-	14, and state that to the best of my knowledge and belief, the	e Owner has performed examinations and taken corrective
measures described in this Owner's Report in a	ccordance with the requirements of the ASME Code, Section XI.	•
	nor his employer makes any warranty, expressed or implied, con	
in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	ne Inspector nor his employer shall be liable in any manner for an	ny personal injury or property damage or a loss of any kind
alising non opposite with the ampropriate		
JF Swan Lever 1.	Commissions NB11473-NC1	
Inspector's Signature	National Board, State, Province, and En	dorsements
Date 4-14	-it-l	

			As Required by the	Provisions of the ASME Cod	le Section XI			
1. Owner	Duke En	ergy Carolinas, LLC	······································		- Date 4/7/2014			
	526 Sou	th Church Street, Charlotte Address	h Church Street, Charlotte, NC, 28201 Address					
2. Plant		McGuire Nuclear Station Name	;		Unit 2			
		12700 Hagers Ferry Road. Addre			2099364-60 Work Order # (or Repair.	/Replacement	Organization P.O. No., Joi	b No., etc.)
3. Work Perform	ned by	Duke Energy Carolinas, L Name			Type Code Symbol S			
		526 South Church Street, Address			Authorization Expiration I	1877		
4. Identification	of Systen	NC - Reactor Coolant	manifest and its establishment to the control of th	and the state of t				
5. (a) Applicat (b) Applicat	ole Construction	action Code ASME III of Section XI used for Rep XI Code Case(s) N/A	pair/Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
6. Identification	of Comp	onents						
Name of Compone		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-42	97	Duke Energy	I N/A	N/A	NA	N/A	Corrected	Yes
The state of the s								
		an ann an aige an						
		لوالد المراجع المراجع الراجع الراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع ا وقد المراجع ال					l c	
		ر محمود و الدولة فيوالد الوميد موايد والاميان والمدين والمدينونية الدولة. والدول الدولة						
7. Description of	f Work	Replaced Compon	ent/Part/Appurtenance					
Additional De	scription	Replaced load stu	d and nuts in hanger 2MC	R-NC4297	and the state of the second	er der scherrenberg	e 7 - La ser heddinda'r fleidir Casar-einid May, dadh Machadershed	,
8. Tests Conduc Description (Or	`i"	Irostatic Pneumatic	Nominal Operation	Pressure □ Exem	pt 🖸 Other 🗆 Pressun	eP	SI Test Temp.	oF
- march non (Of								······································

As Required by the Provisions of the ASME Code Section XI

9. Remarks (Should Include the Following Informati		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 6 in. (non	ninal) System Class: ASME Class 1	
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).:	CFD-2553-02.00	700
Support/Restraint Sketch/Drawing No(s).: 2M	ICR-NC-4297	
Other Applicable Information (e.g., W.O. No., E	C No.) if not included elsewhere on NIS-2 Form:	AND AND THE CONTRACT OF THE CO
providence of the state of the		
	Applicable Manufacturer's Data Reports to be attached	
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are co	orrect and that this conforms to the requirements of the ASME Code,	, Section XI.
Type Code Symbol Stamp N/A		The second section of the section of the second section of the second section of the section of the second section of the section o
Type Code Symbol Stamp		
	en e	
Certificate of Authorization No. NA		Expiration Date N/A
ET Come One lite Agreement Taskering Sen	The second secon	14-17 7
Signed FL Grass, Quality Assurance Technical Spe Owner or Owner's Designee,		Date April, 7 , 20 14
the undersigned holding a valid commission issue	CERTIFICATE OF INSERVICE INSPECTION ed by the National Board of Boiler and Pressure Vessel Inspectors an	d the State or Dominae of
North Carolina	and employed by The Hartford Steam Boiler Inspection	
Connecticut	A	
	have inspected the components described in this Owne	
4-1-14 to 4-814	, 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 accord	lance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor h	nis employer makes any warranty, expressed or implied, concerning	the examinations and corrective measures described
in this Owner's Report. Furthermore, neither the Ins	spector nor his employer shall be liable in any manner for any person	
arising from or connected with this inspection.		
JF Swan Drope - how	MD11472 NC1524 N1	
Inspector's Signature	Commissions NB11473-NC1524, N-1 National Board, State, Province, and Endorsements	
1/20	• 1000 Views are way a 100 100 77 and	'
Date 7 - 0 - 20/	7/	
	f	!

			As Required by the	Provisions of the ASME (Code Section XI			
1. Owner _	wner Duke Energy Carolinas, LLC			— Date 4/9/2014	- Date 4/9/2014			
-	526 Sou	th Church Street, Charlotte, Address	NC. 28201		Sheet 1 of	2		
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road.			2100327-02 Work Order # (o	r Repair/Replacemen	t Organization P.O. No., Jo	ob No., etc.)
3. Work Perfe	ormed by	Duke Energy Carolinas, L Name	LC		Type Code Syn	abol Stamp: N	/A /A	
		526 South Church Street, Addre				IZALIOUI IVO.	/A	
4. Identificati	on of System	n NC - Reactor Coolant		*		naces jego gydnyg jarriche rodiczelinienie		
5. (a) Applic	able Constr	uction Code ASME III n of Section XI used for Rep	air/Replacement Activity		Edition, Summer and Win the 1999 and 2000 Adden		denda, N/A	Code Case
(c) Applic	able 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)
NC S/G 2B	(A)	Duke Energy][8	N/A	N/A	N/A	Corrected	No
							<u></u>	- -
								_
							7-2	
							1,21	
7. Description	n of Work	Replaced Compone	ent/Part/Appurtenance					
Additional I	Description	Replaced control	valves 4 & 5 in S/G 2B lat	eral support.				
8. Tests Cond	lucted: Hy	drostatic Pneumatic	Nominal Operation	Pressure Exe	empt 🗹 Other 🗆 P	ressure	PSI Test Temp.	oF
Description (Optional):							

9. Remarks (Should Include the Following Information			Sheet $\boxed{2}$ of $\boxed{2}$
Component Line Size: N/A in. (nomin	nal) System Class: ASI	ME Class 2	
Weld Isometric Drawing No(s).: N/A			
Flow Diagram No(s).: N/A	And the second for the require of months and the second se		NOOM / MINOR NOOM
Support/Restraint Sketch/Drawing No(s).: N/A	"Co browning schools "24 automic biological particles and an incoming since in the second second second second	der entregeneration of the second	
Other Applicable Information (e.g., W.O. No., EC	No.) if not included elsewhere on NIS	3-2 Form:	
The second secon	REMOTE realization and a transport of the Company o		
	Applicable Manufacturer's Data I	Reports to be attached	
	CERTIFICATE OF C		
I certify that the statements made in the report are con	rect and that this conforms to the requ	irements of the ASME Code, Sec	ction XI.
Type Code Symbol Stamp N/A		المستقدمة المستقدة المستقدات المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة ا المستقدمة المستقدمة	
Certificate of Authorization No. N/A	en de la seria de la composition de la		Expiration Date N/A
	ners account on the contract accommon function of purifications	a and the community of the contract of the con	manufacture only games a minute and promise
Signed FL Grass, Quality Assurance Technical Speci Owner or Owner's Designee, Tit			Date April 9 , 20 14
Owner or Owner 8 Designee, 10			
I, the undersigned, holding a valid commission issued	CERTIFICATE OF INSERV		a State or Province of
North Carolina	The Ha	rtford Steam Boiler Inspection an	ad Insurance Company
Connecticut			
3-26-14 10 4-14-14	1	onents described in this Owner's I	
measures described in this Owner's Report in accorda			performed examinations and taken corrective
By signing this certificate neither the Inspector nor his			
in this Owner's Report. Furthermore, neither the Insparising from open connected with this inspection.	ector nor his employer shall be liable	in any manner for any personal it	njury or property damage or a loss of any kind
atisting from Opconnected with this mispection.			
JF Swan / grove - har	Commiss	sions NB11473-NC1524, N-I	
Inspector's Signature		ard, State, Province, and Endorsements	
Date 4-14, 20/29	Y		
-	'		

		As Required by the	Provisions of the ASME C	ode Section XI			
1. Owner <u>Duke</u>	Energy Carolinas, LLC			— Date 5/28/2014			
526 S	outh Church Street, Charlotte, Address	NC. 28201		- Sheet 1 of 2]		
2. Plant	McGuire Nuclear Station Name	;		Unit 2			
	12700 Hagers Ferry Road. Address			2101773-06 Work Order # (or Repai	r/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	13.7/	The state of the s	A. A. S.
4. Identification of Syst	kem KC - Component Coolin	Charles and the second				Control of the Contro	
	struction Code ASME III ion of Section XI used for Rep	pair/Replacement Activity		lition, Summer and Winter ne 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Section	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)
2A KC HX	Delta Southern Co	23801-73-3	3387	N/A	1973	Corrected	Yes
						(
En graph for our on anything around it comes as a sure for the graph of the graph o	The second secon		Story Carl Carl Carl Carl Carl Carl Carl Carl		T.		
							
7. Description of Work	Replaced Compon	ent/Part/Appurtenance				Marieman de la companya de la compa	
Additional Description	n Replaced end bell	bolting material on the c	omponent cooling hea	t exchanger 2A.			
	Iydrostatic Pneumatic		Pressure Exer	npt 🗆 Other 🗆 Pressu	re P	SI Test Temp.	of
Description (Optional):	test performed per procedur	E MIP/U/A/ / /UU/U45					`

9. Remarks (Should Include the Following Infor	mation, as Applicable):		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class	s: ASME Class 3	
Weld Isometric Drawing No(s).: MCF1-2K	.C5	nind State Continue and State	Colorina in the Colorina and Co
Flow Diagram No(s).:	MCFD-2573-01.00		
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:	
	artarormonarios, perillolloriolomere entrare mora apparez var or <u>al relacendo acuado acuado men</u> erente entrares.		
	Applicable Manufacture	r's Data Reports to be attached	
	· · · · · · · · · · · · · · · · ·	OF COMPLIANCE	
I certify that the statements made in the report a	re correct and that this conforms to the	he requirements of the ASME Code, Section	on XI.
Type Code Symbol Stamp N/A	والمستقول والمراجع والم	and the contract and another contract to the c	THE RESERVE OF THE THE PARTY OF
Total Total			
N/A	e i grigori e come come em gri e i e i equalizar septimi i i miti i di gri esta septimi	erroren en arminento	N/A
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist	Marsh	Date May 28 . 20 14
Owner or Owner's Desig			
		NSERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Boile	er 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		components described in this Owner's Re	port during the period
4-6-14 to 5-2-	manufactured; and outside the man to make before or the	y knowledge and belief, the Owner has p	erformed examinations and taken corrective
measures described in this Owner's Report in ac	ocordance with the requirements of the	ne ASME Code, Section XI.	!
By signing this certificate neither the Inspector	nor big emnlover makes any warrants	expressed or implied concerning the ex-	minations and corrective measures described
in this Owner's Report. Furthermore, neither th			
arising from or connected with this inspection.			-
The state of the s		STOTIAND MOLECULAR	#7-MH-MHH #5-MH-MH-MH-MH-MH-M-X-X-X-MH-M- C. Liberton-Y-M-M-M-M-M-M-M-M-M-M-MH-MH-MH-MH-MH-M
JF Swan Inspector's Signature		ommissions NB11473-NC1524, N-I ional Board, State, Province, and Endorsements	
	. 1	от под на при	
Date 0 - d, 2	0 I		
<u> </u>			

1. Owner	Duke En	ergy Carolinas, LLC		· · · · · · · · · · · · · · · · · · ·	- Date 5/6/2014			
	526 Sou	th Church Street, Charlotte, N Address	C. 28201		- Sheet 1 of 2			
2. Plant		McGuire Nuclear Station Name			Unit 2			
		12700 Hagers Ferry Road, H	untersville, NC 28078		2101794-10		NT 79 to 1	
		Address			Work Order # (or Repair/	_	Organization P.O. No., Jo	b No., etc.)
3. Work Perfor	rmed by	Duke Energy Carolinas, LLO Name			Type Code Symbol St			
		526 South Church Street, Ch Address	narlotte, NC 28201-1006		Authorization Expiration I	57/		
4. Identificatio	on of System	NV - Chemical and Volum	e Control					
(b) Applica	able Edition	uction Code ASME III n of Section XI used for Repair n XI Code Case(s) N/A	r/Replacement Activity		ion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A	Code Case
6. Identificatio	on of Comp	onents						
	- I						Corrected,	ASME Code
Name (Compon		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other . Identification	Year Built	Removed, or Installed	Stamped (Yes or No)
	nent	Name of Manufacturer Duke Energy						Stamped (Yes or No)
Compon	nent	والمنا المنافضة المنافر والمرافز والمرافز والمنافر والمنافر والمنافز والمرافز والمنافز والمنافز والمنافز	Serial No.	Board No.	Identification	Built	Installed	(Yes or No)
Compon	nent	والمنا المنافضة المنافر والمرافز والمرافز والمنافر والمنافر والمنافز والمرافز والمنافز والمنافز والمنافز	Serial No.	Board No.	Identification	Built	Installed Corrected	(Yes or No)
Compon	nent	والمنا المنافضة المنافر والمرافز والمرافز والمنافر والمنافر والمنافز والمرافز والمنافز والمنافز والمنافز	Serial No.	Board No.	Identification	Built	Installed Corrected	(Yes or No)
Compon	nent	والمنا المنافضة المنافر والمرافز والمرافز والمنافر والمنافر والمنافز والمرافز والمنافز والمنافز والمنافز	Serial No.	Board No.	Identification	Built	Installed Corrected	(Yes or No)
Compon	nent	والمنا المنافضة المنافر والمرافز والمرافز والمنافر والمنافر والمنافز والمرافز والمنافز والمنافز والمنافز	Serial No.	Board No.	Identification	Built	Installed Corrected	(Yes or No)
Compon	nent	والمنا المنافضة المنافر والمرافز والمرافز والمنافر والمنافر والمنافز والمرافز والمنافز والمنافز والمنافز	Serial No.	Board No.	Identification	Built	Installed Corrected	(Yes or No)
NV Piping	of Work	Duke Energy Replaced Componen	Serial No.	Board No.	Identification N/A	Built	Installed Corrected	(Yes or No)
NV Piping 7. Description	of Work escription ucted: Hy	Puke Energy Replaced Componen Replaced bolting materials	Serial No. N/A N/A t/Part/Appurtenance aterial on 1 1/2" seal inject Nominal Operation P	Board No. 80 ction line at 2C NC Pu	Identification N/A	Built 1982	Installed Corrected	(Yes or No)

9. Remarks (Should Include the Following Information	ation, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	ominal) System Class: ASME Class 1	
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).:	MCFD-2553-01.00	- The state of the
Support/Restraint Sketch/Drawing No(s).:	V/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	The state of the s	Expiration Date N/A
	the same of the same and the same of the s	
Signed FL Grass, Quality Assurance Technical S		Date May 6, 20 14
	, iuc	
	CERTIFICATE OF INSERVICE INSPECTION	
I the undersigned, holding a valid commission iss	ued by the National Board of Boiler and Pressure Vessel Inspectors and	d the State or Province of
North Carolina	and employed by The Hartford Steam Boiler Inspection	n and Insurance Company of
Connecticut	have inspected the components described in this Owner	
4-23-14 5-12-1	4, and state that to the best of my knowledge and belief, the Owner	• • •
measures described in this Owner's Report in acco	ordance with the requirements of the ASME Code, Section XI.	143 Joi William William William Comment Comments
By signing this certificate neither the Inspector no	r his employer makes any warranty, expressed or implied, concerning t	he 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 person	al injury or property damage or a loss of any kind
arising from or connected with this inspection.		
IF Swan larone F. Lwo	Commissions NB11473-NC1524, N-I	AND THE PROPERTY OF THE PROPER
Inspector's Signature	National Board, State, Province, and Endorsements	
Date 5-/2 20	7 4	
Date :	/	

1. Owner Duke Energy Carolinas, LLC			— Date 5/6/2014			
526 South Church Street, Charlot Address	tte, NC, 28201		- Sheet 1 of 2			
2. Plant <u>McGuire Nuclear Station</u>	<u>n</u> une .		Unit 2			
12700 Hagers Ferry Ros	ad, Huntersville, NC 28078		2102328 - 04	- Paragolipe and SIR VC Spaces.	a tradition and the state of th	
	dress		Work Order # (or Repair/	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by <u>Duke Energy Carolinas</u>	LLC		Type Code Symbol St	amp: N/	A	
•			Authorization	No.: N/	A	
	et. Charlotte, NC 28201-1006 kdress		Expiration I	ate: N/	A	
4. Identification of System NC - Reactor Coolant			eling pelitik demot semson mineraren arazon berranen en e		and and the control of the control o	
 (a) Applicable Construction Code ASME III (b) Applicable Edition of Section XI used for I (c) Applicable Section XI Code Case(s) N/A 	Repair/Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A C	ode Case
6. Identification of Components						
Name of Component Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NC3 Crosby	N56925-00-0008	524	NA	1978	Removed	Yes
2NC3 Crosby	N56925-00-0006	30	N/A	1974	Installed	Yes
					1	
7. Description of Work Replaced Comp	onent/Part/Appurtenance					
Additional Description replaced valve	2NC3.		antingga y transportant garde des rendesentates en l'exist des e l'évaluations de l'existence de la company de		entre de la companya	
8. Tests Conducted: Hydrostatic Pneumat	ic Nominal Operation 1	Pressure E Exemp	ot Other Pressure		SI Test Temp.	or.

9. Remarks (Should Include the Following Infor	mation, as Applicable):	and the second second	Sheet 2 of 2
Component Line Size: 6 in.	(nominal) System Cl	lass: ASME Class 1	•
Weld Isometric Drawing No(s).: MCFI-2N	IC53 & 59	and the second s	epineterinteksikateteksenterinteksikolisik til i ikistikateteksikolisikolisik jaruttika jaruttika jaruttik jaru
Flow Diagram No(s).:	MCFD-2553-02.00	economic anno a victoria - la provinci anno especiale de la companya de la companya de la companya de la compa	
Support/Restraint Sketch/Drawing No(s).:	N/A	the control of the co	en i de de la companya del la companya de la compan
Other Applicable Information (e.g., W.O. No.	o., EC No.) if not included elsewhe	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 a	re correct and that this conforms to	o the requirements of the ASME C	Code, Section XI.
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A	ر المراجعة المراجعة المراجعة المراجعة ال	de de la contraction de la con	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist 7	Three	Date May 6 20 14
Owner or Owner's Desig			
		FINSERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Bo	oiler and Pressure Vessel Inspecto	rs and the State or Province of
North Carolina	and employed by	The Hartford Steam Boiler Insp	ection and insurance Company of
Connecticut		he components described in this C	Owner's Report during the period
measures described in this Owner's Report in a	,	f my knowledge and belief, the Ov f the ASME Code, Section XI.	wner has performed examinations and taken corrective
			ning the examinations and corrective measures described ersonal injury or property damage or a loss of any kind
JF Swan Prove " Suco		Commissions NB11473-NC1524	, N-I
Date 5-/3, 2	·o	National Board, State, Province, and Endorse	ements



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CROSBY VALLE MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

9.C.-448 NB-30

DATA REPORT Safety and Salety Relat! Valves

fanufactured By Crosby Valve	Name and Address	•
000 HB-BP-80 N_64026	Want 100 voors	6/20/73
Nodel No. N-38923 Duke Power	Company	Contract Outo 6/20/73
bure source Charlotte.	North Carolina	Order No
	Name and Adwess	
Duke Power Company,	, 422 South Church St., C	Charlotte, North Carolina 28201
	Name and Address	
Location of Plant McGuire Nucl	lear Station Unit #1, Con	wans Ford, North Carolina
		006 Drawing No _ DS-C-56925 Rev. O
•	,	 · .
Type Safety	Orifice Size_ M	Pipe Size Inter_6_Outler_6
Safety, Safety Relief, Pilot. Por	•	
Set Pressure (PSIG) 2485#		700 Rated Temperature
• • •	•	•
Stamped Capacity 420006#/Hi	r. 3 Soverpres	sure 3 Blowdown . PSIG. 124
	• .	
Hudrostatic Test (DSIC . Inlet	\$575 Comple	ete Vaive 750
The material, design, construction a	and workmanship comply with ASME	
The material, design, construction a	and workcanship comply with ASME	Code. Section [1].
The material, design, construction a	and workcanship comply with ASME	Code. Section [1].
The material, design, construction a	and workmanship comply with ASME on Address Components	Code. Section [1]. denda Date Winter 1972 Material Specification [heliding Type of Grade
The material, design, construction a Class Editio Pressure Containing or Pressure Re a. Castings	and workmanship comply with ASME on 1971 Addressing Components Serial No. Identification	Material Specification Including Type of Grade ASTM A-351-72 Gr. CF8M
The material, design, construction a Class Editio Pressure Containing or Pressure Re	nd workmanship comply with ASME on 1971 Address Serial No. Identification 190397-32-0006	Material Specification Including Type or Grade ASTM A-351-72 Gr. CF8M ASNE SA-351 Gr. CF8M
The material, design, construction a Class Editio Pressure Containing or Pressure Re a. Castings	and workmanship comply with ASME on 1971 Addressing Components Serial No. Identification	Material Specification Including Type of Grade ASTM A-351-72 Gr. CF8M
The material, design, construction a Class 1 Edition Pressure Containing or Pressure Re a. Castings Body Bonnet	nd workmanship comple with ASME on 1971 Address Serial No. Identification 190397-32-0006	Material Specification Including Type of Grade ASTM A-351-72 Gr. CF8M ASNE SA-351 Gr. CF8M
The material, design, construction a Class Editio Pressure Containing or Pressure Re a. Castings Body	nd workmanship comple with ASME on 1971 Address Serial No. Identification 190397-32-0006	Material Specification Including Type of Grade ASTM A-351-72 Gr. CF8M ASNE SA-351 Gr. CF8M
The material, design, construction a Class 1 Edition Pressure Containing or Pressure Re a. Castings Body Bonnet	nd workmanship comple with ASME on 1971 Address Serial No. Identification 190397-32-0006	Material Specification The Indiang Type of Grade ASTM A-351-72 Gr. CF8M ASTM A-105-71 Gr. II ASPE SA-105 Gr. II
The material, design, construction a Class I Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. Bur Stock and Porgings	nd workmanship comple with ASME on 1971 Address Serial No. Identification 190397-32-0006	Material Specification The Indian Type of Grade ASTM A-351-72 Gr. CF8M ASTM A-105-71 Gr. II ASTM SA-105 Gr. II
The material, design, construction a Class 1 Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. But Stock and Porgings Support Rods Nozzle	tind workmanship comply with ASME on 1971 Address No. Identification N90397-32-0006 N90399-33-0007	Material Specification The Indiana Type of Grade ASTM A-351-72 Gr. CF8M ASTM A-105-71 Gr. II ASPE SA-105 Gr. II ASTM A-182-71 Gr. F ASMF SA-182 Gr. F
The material, design, construction a Class I Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. But Stock and Forgings Support Rods Nozzle Disc Insert Top	1971 Add 197	Material Specification Inclinding Type of Grade ASTM A-351-72 Gr. CF8M ASME SA-351 Gr. CF8M ASTM A-105-71 Gr. II ASPE SA-105 Gr. II ASTM SA-182-71 Gr. F ASME SA-182 Gr. F Haynes Scallice Gr. R6 ASTM A-105-71 Gr. II
The material, design, construction a Class Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. Bur Stock and Porgings Support Rods Nozzle Disc Insert	tind workmanship comply with ASME on 1971 Address No. Identification N90397-32-0006 N90399-33-0007	Material Specification The Indiang Type of Grade ASTM A-351-72 Gr. CF8M ASME SA-351 Gr. CF8M ASTN A-105-71 Gr. II ASPE SA-105 Gr. II ASTM A-182-71 Gr. F ASME SA-182 Gr. F Haynes Stellite Gr. R6 ASTM A-193-70 Gr. II ASTM A-193-70 Gr. B6
The material, design, construction a Class I Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. But Stock and Forgings Support Rods Nozzle Disc Insert Top	1971 Add 197	Material Specification The Indiang Type of Grade ASTM A-351-72 Gr. CF8M ASME SA-351 Gr. CF8M ASTN A-105-71 Gr. II ASPE SA-105 Gr. II ASTM A-182-71 Gr. F ASME SA-182 Gr. F Haynes Stellite Gr. R6 ASTM A-193-70 Gr. II ASTM A-193-70 Gr. B6
The material, design, construction a Class I Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. But Stock and Porgings Support Rods Nozzle Disc Insert Spring Washers Bottom Adjusting Bolt	1971 Address and work manship complex with ASME and 1971 Address and Serial No. Identification N90397-32-0006 N90353-33-0001 N90399-33-0007 N90350-33-0089 N90350-33-0090	Material Specification Inclinding Type of Grade ASTM A-351-72 Gr. CF8M ASTM A-105-71 Gr. II ASTM A-182-71 Gr. F ASTM A-182-71 Gr. II ASTM A-183-70 Gr. II ASTM A-193-70 Gr. B6
The material, design, construction a Class I Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. Bur Stock and Porgings Support Rods Nozzle Disc Insert Spring Washers Bottom	1971 Add workmanship comple with ASME 1971 Add 1	Material Specification Inclinding Type of Grade ASTM A-351-72 Gr. CF8M ASTM A-105-71 Gr. II ASTM A-182-71 Gr. II ASTM A-183-71 Gr. II ASTM A-193-71 Gr. II ASTM A-193-71 Gr. B6 ASTM A-193-71 Gr. B6
The material, design, construction a Class I Edition Pressure Containing or Pressure Re a. Castings Body Bonnet b. But Stock and Porgings Support Rods Nozzle Disc Insert Spring Washers Bottom Adjusting Bolt	1971 Add workmanship comple with ASME 1971 Add 1	Material Specification Inclinding Type of Grade ASTM A-351-72 Gr. CF8M ASTM SA-351 Gr. CF8M ASTM A-105-71 Gr. II ASTM SA-105 Gr. II ASTM SA-182 Gr. F Haynes Scallite Gr. R6 ASTM A-105-71 Gr. II

Marcellal Specification Serial No. or Including Type or Grade **Identification** ASTM-A-304 Gr. 51B60H NX-2761-0020 e. Spring. . 4. Bolting e. Other Paris such as Pilot Components Disc Holder N90356-34-0015 Inconel 718 Bonnet Stud 87589 Bonnet Stud Nut We certify that the statements made in this report are correct. 9-18 19 78 Signed Crosby Valve & Cage Co 331 Nov. expires Certificate of Authorization No. DESIGN INFORMATION ON FILE AT CROSBY VALVE & GAGE COMPANY DESIGN REPORT No. EC-158

O

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a watid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of HISS. and employed by Mutual Boiler & Machinary Insurance Co. Whatcham, Mass. have inspected the equipment described in this Data Report on Academic 12. 19.24 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

**Factory Mutual Group of Insurance Co.

Acres Of Change Commissions A.A. GOGS Mass. 1090
National Board, State, Province and No. 1

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DUKE POWER COMPANY DESIGN ENGINEERING DEPARTMENT VENDOR QUALITY ASSURANCE CERTIFICATION

Name OF Crosby Vilva & Ga	ce Compa	iny 1 tem No.	
Address of Vendor Plant Wrenther	Mass.	02093 Spec. No.MCS-1205.09 Rev	• 1
Component(s) or Material <u>Steel</u>	Safety	Valve Date 12/19/75	-
•		Shipping ID No.	
		Release No. N/A	
Nill Power Order NoA-	33957.		
Certification included Yes	Full	x Partial	
		ons have been completed as require tion, list materials or component	
1) Tested in accordance with f	rosby Pr	ocedure T-16065-0	
2)		·	
3)			-
Physical and Chemical Analysis	_X	Major Repair Records and Chart	<u> </u>
Design Report	N/A	Repair NDT	_ X
Stress Report	_N/A_	Hydro (Test PressPSIG)	X
Heat Treatment	X	Cleanliness	
Radiographic Test	X	Operating Test	
Ultrasonic Test	X	Performance Curve	_N/A
Magnetic Particle	X	ASME Data Report	<u>.</u>
Penetrant Tests	<u>x</u>	Personnel Qualifications on Record	<u>.x</u> _
Deviation Record None	•		
	(If par	red by the specification is attached rtial certification, include documnipment.)	
Valve Documentat	ion Pack	ମହ୍ର	·
·			

(Continued)

Form 930.1

Rev. 1

DUKE POWER COMPANY DESIGN ENGINEERING DEPARTMENT VENDOR QUALITY ASSURANCE CERTIFICATION

The listed component(s) or material(s) conform to the requirements of Duke Power Company Specification $\underline{\text{MCS-1205.09 Rev. 1}}$ with the approved deviations noted above. The $\Omega\Lambda$ documentation has been completed and attached to this form. No later than component or material shipment, the complete $\Omega\Lambda$ documentation packet is being transmitted to Duke Power Company

S. K. Blackley, Jr., Chief Engineer, Mechanical & Nuclear Division
 C. J. Wylie, Chief Engineer, Electrical Division
 L. C. Dail, Chief Engineer, Civil & Environmental Division

Design Engineering Department P. Q. Box 2178 Charlotte, N. C. 28242

A copy of this completed Vendor Quality Assurance Certification form will be included with shipping papers and shipped with the component to Duke Power Company, at the address designated in the specification. This is to certify that the item of equipment identified above fully meets the requirements of the above listed specification including all of the codes, standards, test requirements, and quality assurance requirements invoked therein.

Vendor Replace heative Juthorized Signature

Title Q.A. Supervisor Date 18/18/75

1. Owner Duke F	nergy Carolinas, LLC	4 .		Date 5/6/2014			
526 Sc	outh 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		2102480-03			
3. Work Performed by	Duke Energy Carolinas, LLA Name	C		Type Code Symbol S	tamp: N		10 No., etc.)
	526 South Church Street, Ch Address	nariotte, NC 28201-1006	5	Authorization Expiration	110 <u> </u>	والمراج والمراجع	
4. Identification of Syste	NV - Chemical and Volum	ne Control		٠ - المراج			
 (a) Applicable Const (b) Applicable Edition 	truction Code ASME III on of Section XI used for Repair on XI Code Case(s) N/A	enamenta, per l'antre de l'antre per la resta de l'antre de l'Alle de l'antre de l'antre de l'antre de l'antre L'antre de l'antre de		ition, Summer and Winter e 1999 and 2000 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)
2NV1002	Kerotest	EAU4-7	31604	N/A	1980	Corrected	Yes
And the second s				1000			
7. Description of Work	Replaced Componen	t/Part/Appurtenance					
Additional Description	Replaced disc in va	lve 2NV1002		and the party of the second of	THE TAXABLE STREET	For the second section of the section of the second section of the section of the second section of the	
8. Tests Conducted: H	ydrostatic Pneumatic	Nominal Operation	Pressure 🗹 Exem	pt □ Other □ Pressu	re I	SI Test Temp.	of
Description (Optional):							

9. Remarks (Should Include the Following Information, as Appli	cable):		Sheet $\frac{2}{}$ of $\frac{2}{}$
Component Line Size: 2 in. (nominal)	System Class: ASM	E Class 2	
Weld Isometric Drawing No(s).: MCFI-2NV235 / 2NV239			
Flow Diagram No(s).: MCFD-2554-0	1.03	The same and the s	entalis entalis entalis entalis (parties entalis ental
Support/Restraint Sketch/Drawing No(s).: N/A	and the state of t		
Other Applicable Information (e.g., W.O. No., EC No.) if not	included elsewhere on NIS-	2 Form:	
A APP OF THE PROPERTY OF THE P		the phonones and the second residence of the second	
	Applicable Manufacturer's Data Re	ports to be attached	
	CERTIFICATE OF CO	MPLIANCE	
I certify that the statements made in the report are correct and the	at this conforms to the requir	ements of the ASME Code, Se	ection XI.
Type Code Symbol Stamp N/A	AND THE PROPERTY OF THE PROPER		The second secon
INA			
Certificate of Authorization No. N/A	anti ali MacNet Children. Ni manchi chimbert esclari dilipsa e eserca massi chi		Expiration Date N/A
Certificate of Authorization No.		<u>_</u>	Expuation Date 1551
Signed FL Grass, Quality Assurance Technical Specialist	Follow.	mann - fors, workers sid dediction a more et unique à commité for conduction	Date May 6 , 20 14
Owner or Owner's Designee, Title	7		
_	RTIFICATE OF INSERVI		
I, the undersigned, holding a valid commission issued by the Na	ional Board of Boiler and Pr	essure Vessel Inspectors and the	he State or Province of
North Carolina	1	ford Steam Boiler Inspection a	
Connecticut	have inspected the compon	ents described in this Owner's	Report during the period
			s performed examinations and taken corrective
measures described in this Owner's Report in accordance with the	ie requirements of the ASME	Code, Section XI.	
By signing this certificate neither the Inspector nor his employer	makes any warranty, expres	sed or implied, concerning the	examinations and corrective measures described
in this Owner's Report. Furthermore, neither the Inspector nor h	is 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 Herone F. Man	Commission	ons NB11473-NC1524, N-I	AND THE PARTY OF T
Inspector's Signature		, State, Province, and Endorsements	
Date			

			As Required by the l	Provisions of the ASME Cod	le Section XI			
1. Owner	Duke Energy	Carolinas, LLC			— Date 5/6/2014	.,		
	526 South C	hurch Street, Charlotte, NO Address	C. 28201		- Sheet 1 of 2			
2. Plant	<u>Mc</u>	Guire Nuclear Station Name			Unit 2			
	127	00 Hagers Ferry Road, Hu	ntersville, NC 28078		2102514-02 Work Order # (or Repair	/Replacement	Organization P.O. No., Job	No. etc.)
3. Work Perfor	-	ke Energy Carolinas, LLC Name 6 South Church Street, Cha			Type Code Symbol S Authorization	tamp: N/	A	
5 25		Address			Expiration l	Date: N/	<u>A</u>	
4. Identification	n of System	IV - Chemical and Volume	Control			0.95	Park Carry Carry	
5. (a) Applica (b) Applica	ble Construction of	on Code ASME III Section XI used for Repair	Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	lenda, N/A C	Code Case
		Code Case(s) N/A						
6. Identification	n of Componer	ıts						معمونيونية استستانات
Name o Compon		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2NV238	Fisl	ICT	AA0894-01	N/A	N/A	2002	Corrected	Yes
		e and the second se			Continued about Vision and Administration of the Continued about t		÷	ا عدمجيد.
		The state of the s						
plant of the same of the same displacements and the		and the design of the first of the second	A COMPANY OF THE PARTY OF THE P		planting with Philippe Control and Applications Street, or Control and Control and Street,			
		The Control of Market Control of States and						1
7. Description	of Work	Replaced Component	Part/Appurtenance	<u> </u>		where the same of	1	
Additional De	escription	Replaced plug in val	ve 2NV238		ar samelyin (samelyin at and an earliest material of a state of the samely and a samely and a samely of the same		Company College are supposed to the supposed of the supposed o	
8. Tests Condu Description (O	Ţ 	tatic Pneumatic	Nominal Operation	Pressure Exemp	pt 🗆 Other 🗀 Pressur	eP	SI Test Temp.	oF
·	Z							

As Required by the Provisions of the ASME Code Section XI

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).: MCFI-2N	ſV31		
Flow Diagram No(s).:	MCFD-2554-03.01	eministytenemaskeiser – van nymer en en lygistene eer et penellenteen eer et penellenteen eer et penellenteen	
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included elsewhere o	on NIS-2 Form:	
	Man de standardina en empleo en estatuinates destandardinas destandardinas de estatuinas de estatuinas de esta	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	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	e 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 47	Herr	Date May 6 , 20 14
Owner or Owner's Desig	gnee, Title		, 20 <u> </u>
	CERTIFICATE OF IN	SERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler	and Pressure Vessel Inspectors ar	nd the State or Province of
North Carolina	$\underline{\hspace{1cm}}$ and employed by $\overline{\hspace{1cm}}^{\hspace{1cm}}$	he Hartford Steam Boiler Inspection	on and Insurance Company of
Connecticut	have inspected the c	components described in this Own	er's Report during the period
4-3-14 to 5-13-1		y knowledge and belief, the Owner	r has performed examinations and taken corrective
measures described in this Owner's Report in a	ccordance 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 th	ne Inspector nor his employer shall be l		the examinations and corrective measures described nal injury or property damage or a loss of any kind
	ne Inspector nor his employer shall be l		
in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	ne Inspector nor his employer shall be I	liable in any manner for any person	nal injury or property damage or a loss of any kind
in this Owner's Report. Furthermore, neither th	ne Inspector nor his employer shall be I		nal injury or property damage or a loss of any kind
in this Owner's Report. Furthermore, neither the arising from or connected with this inspection. JF Swan	ne Inspector nor his employer shall be I	hiable in any manner for any person mmissions NB11473-NC1524, N-	nal injury or property damage or a loss of any kind

1. Owner <u>Duk</u>	te Energy Carolinas, LLC			Date 4/19/2014			
526	South Church Street, Charlotte Address	e, NC, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station	ne		Unit 2			
	12700 Hagers Ferry Road	Huntersville, NC 28078		2102522-09			
	Add	ress		Work Order # (or Repair	/Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed b	Duke Energy Carolinas, Nam			Type Code Symbol S	-		
	526 Caush Chumah Chuma	Charlotte, NC 28201-1006		Authorization	1 No.: N/	A	
1	520 South Chinen Street Add		And the second second	Expiration 1	Date: N/	A	
4. Identification of S	ystem RN - Nuclear Service V	Vater					
(b) Applicable E	onstruction Code ASME III dition of Section XI used for Re	epair/Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Se	ection XI Code Case(s) N/A				·····		
6. Identification of C	omponents				-		
			1		- 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).
	Name of Manufacturer Duke Energy						
Component	and the state of t	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component	and the state of t	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component	and the state of t	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component	and the state of t	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component	and the state of t	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component	Duke Energy	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component 2MCA-RN-4244	Duke Energy Replaced Compo	Serial No.	Board No.	Identification	Built	Installed	(Yes or No).
Component 2MCA-RN-4244	Duke Energy Replaced Composition Replaced bolting	Serial No. N/A N/A nent/Part/Apourtenance g material on hanger 2MCA-	Board No.	Identification N/A	Built N/A	Installed	(Yes or No).

9. Remarks (Should Include the Following Inform		Sheet 2 of 2
	(nominal) System Class: ASME Class	3
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).:	MCFD-2574-02.00	
Support/Restraint Sketch/Drawing No(s).:	2MCA-RN-4244	
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	attached
	CERTIFICATE OF COMPLIA	INCE
I certify that the statements made in the report as	re 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. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist Asthur	Date April 19 , 20 14
Owner or Owner's Design	ace, Title	- Dav (Time) 100 (Time)
	CERTIFICATE OF INSERVICE INS	
	issued by the National Board of Boiler and Pressure V	essel Inspectors and the State or Province of
North Carolina	and employed by The Hartford Ster	am Boiler Inspection and Insurance Company of
Connecticut	have inspected the components desc	cribed in this Owner's Report during the period
4-11-14 to 4-22-		d belief, the Owner has performed examinations and taken corrective
	cordance with the requirements of the ASME Code, S	Section XI.
in this Owner's Report. Furthermore, neither the	nor his employer makes any warranty, expressed or in e,Inspector nor his employer shall be liable in any ma	nplied, concerning the examinations and corrective measures described unner for any personal injury or property damage or a loss of any kind
arising from of connected with this inspection.	y	
- Harris F	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
JF Swan Orovo - / Au Inspector's Signature	Commissions NB National Board, State, Pro	11473-NC1524, N-I
inspector o organisate	ATGARUMBA aromany syndroy a av	Wince, guai elegorisches
Date 4-22-, 20	0/7	

1. Owner	Ouke Energy Carolinas, LLC			— Date 1/2/2014			•
	526 South Church Street, Charlotte, 1 Address	NC, 28201		— Sheet <u>1</u> of <u>2</u>	ì		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, H			2116167			
3. Work Performe	Address d by <u>Duke Energy Carolinas, LL</u> Name			Work Order # (or Repair Type Code Symbol S Authorization	tamp: N/		No., etc.)
	526 South Church Street, C Address		6	Expiration	AT/	A	
4. Identification of	System NV - Chemical and Volun	ne Control		and the state of t			
(b) Applicable(c) Applicable	Construction Code ASME III Edition of Section XI used for Repa Section XI Code Case(s) N/A	ir/Replacement Activity		ition, Summer and Winter e 1999 and 2000 Addenda	Add	enda, N/A	Code Case
6. Identification of	f Components			T	-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)
NV Piping	Duke Energy	N/A	80	N/A	1982	Corrected	Yes
2NV331	ITT Grinnell	74-4770-6-10	WR798	V File# 320	1974	Removed	Yes
2NV331	BNL Industries	A120803-2-1	N/A		2012	Installed	Yes
2NV344	ITTB Grinnell	74-4770-6-8	WR796	V File# 320 & 46	1974	Removed	Yes
2NV344	BNL Industries	A120803-2-5	N/A		2012	Installed	Yes
							
7. Description of \ Additional Descr		t/Part/Appurtenance d valves 2NV331 and 2	NV344			ere francis das descherbes d'ambiestes, un hair francis e mades bit des	
8. Tests Conducted	d: Hydrostatic Pneumatic nnal): test performed per procedure	Nominal Operation		apt Other Pressur	e 350 P	SI Test Temp. 1	04.9 of

Component Line Size: 3	wing Information, as Ap	· =			Sheet 2	_ of <u>2</u>
-	in. (nominal)	System Class: ASME	Class 3		m - refer in antidation of the transport material and applicate antidation of the contract of	
Flow Diagram No(s).:	MCFD-2554				and an arrange gard and the second se	
Support/Restraint Sketch/Drawing	- '	1-04.00				dig and the company of the same
Other Applicable Information (e.g.		not included elsewhere on NIS-2	Form:			
		The second section of the second section of the second section of the second section s		other-marks wat a two to keep languages the confine		
·		Applicable Manufacturer's Data Rep	orts to be attached	÷. ,		
•	-	CERTIFICATE OF CON	APLIANCE			
I certify that the statements made in the	he report are correct and	that this conforms to the require	ments of the ASME C	Code, Section	XI.	
Type Code Symbol Stamp N/A	· · · · · · · · · · · · · · · · · · ·		-			
Certificate of Authorization No. *\frac{N/A}{}				•	Expiration Date N/A	- · · ·)
		· · · · · · · · · · · · · · · · · · ·			ر برای در است. در برای در سامه در	
Signed FL Grass, Quality Assurance		to that	6	<u>.</u>	Date January 2	, 20_14
Uwner or u	Owner's Designee, Title	/	·	<u>.</u>		
				-		
					•	
the undersioned holding a valid cor		CERTIFICATE OF INSERVION National Board of Boiler and Pres	ssure Vessel Inspector	re and the Sta	te or Province of	
		National Board of Boiler and Pre-	ssure Vessel Inspector	rs and the Sta on & Insuranc	te or Province of e Company	of
		National Board of Boiler and Pream and employed by Hartford S	ssure Vessel Inspector team Boiler Inspection	n & Insuranc	e Company	of
North Carolina	mmission issued by the l	National Board of Boiler and Pream and employed by Hartford S have inspected the component	ssure Vessel Inspector team Boiler Inspection this described in this C	n & Insuranc wner's Repo	e Company It during the period	of
North Carolina Connecticut 11-12-13 to 1-2 measures described in this Owner's Reference of the content of th	7-/4, and stateport in accordance with	National Board of Boiler and Pre- and employed by Hartford S have inspected the componentate that to the best of my knowled high the requirements of the ASME	ssure Vessel Inspector team Boiler Inspection ints described in this Code dge and belief, the Ov Code, Section XI.	on & Insurance Owner's Repo	e Company It during the period Ormed examinations and taken	
North Carolina Connecticut 11-12-13 to 1-4 measures described in this Owner's Ro	7-/4, and stateport in accordance with	National Board of Boiler and Pre- and employed by Hartford S have inspected the componentate that to the best of my knowled high the requirements of the ASME over makes any warranty, expresses	ssure Vessel Inspector team Boiler Inspection ints described in this Code and belief, the Ov Code, Section XI.	on & Insurance Owner's Repo wher has perform ing the exam	e Company It during the period ormed examinations and taken inations and corrective measu	res described
North Carolina Connecticut 11-12-13 to 1-2 measures described in this Owner's Re By signing this certificate neither the lin this Owner's Report. Furthermore,	7-/4, and stateport in accordance with Inspector nor his employ, neither the Inspector no	National Board of Boiler and Pre- and employed by Hartford S have inspected the componentate that to the best of my knowled high the requirements of the ASME over makes any warranty, expresses	ssure Vessel Inspector team Boiler Inspection ints described in this Code and belief, the Ov Code, Section XI.	on & Insurance Owner's Repo wher has perform ing the exam	e Company It during the period ormed examinations and taken inations and corrective measu	res described
North Carolina Connecticut 11-12-13 to 1-2 measures described in this Owner's Re By signing this certificate neither the lin this Owner's Report. Furthermore,	7-/4, and stateport in accordance with Inspector nor his employ, neither the Inspector no	National Board of Boiler and Pre- and employed by Hartford S have inspected the componentate that to the best of my knowled the requirements of the ASME of the requirements of the requir	ssure Vessel Inspector team Boiler Inspection ints described in this Code and belief, the Ov Code, Section XI.	on & Insurance owner's Repo wher has perform ing the examersonal injury	e Company It during the period ormed examinations and taken inations and corrective measu	res described
North Carolina Connecticut 11-12-13 to 1- measures described in this Owner's R By signing this certificate neither the lin this Owner's Report. Furthermore, arising from or connected with this instance. JF Swan Providence of the line of the	7-/4, and stateport in accordance with Inspector nor his employ, neither the Inspector no	National Board of Boiler and Pre and employed by Hartford S have inspected the componentate that to the best of my knowled hat the requirements of the ASME of the requirements of the ASME or his employer shall be liable in a Commission	ssure Vessel Inspectoriteam Boiler Inspection in the described in this Code and belief, the Ox Code, Section XI. ed or implied, concernany manner for any points NB11473-NC1524	on & Insurance owner's Repo wher has perform ing the examersonal injury	e Company It during the period ormed examinations and taken inations and corrective measu	res described
Connecticut	7-/4, and stateport in accordance with Inspector nor his employ, neither the Inspector no	National Board of Boiler and Pre and employed by Hartford S have inspected the componentate that to the best of my knowled hat the requirements of the ASME of the requirements of the ASME or his employer shall be liable in a Commission	ssure Vessel Inspector team Boiler Inspection ints described in this Code and belief, the Ov Code, Section XI.	on & Insurance owner's Repo wher has perform ing the examersonal injury	e Company It during the period ormed examinations and taken inations and corrective measu	res described

FORM NEV-1 CHITTECATE MELECULE BAYA REPORT FOR MUCLEAR PLACE OR VALVES* As Regular by the Freshlers of the ASNE Code, Supply SL Shiden 1

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4. Model No. L. ABNE Col	Series He., n, Gestien I		VALVE		ABYA2		- 2 - 2		GIVILLE.	NC 200
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7. Massdah	<u> 5</u>	78 TY318	- Bornut	<u> </u>	V318	<u>841</u>	8 TY316	(AL) Halting	84.55	GR. CO
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M MV-1 West -- Pa. 2 of ...2...) CHITTHEATE OF GOLDLANDS

(1) For manually against 6 values only

		As Required by the l	Provisions of the ASME Coo	le Section XI			
1. Owner Di	ike Energy Carolinas, LLC		<u> </u>	Date 5/6/2014			
52	26 South Church Street, Charlotte, 1	NC. 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station			Unit 2			-
	12700 Hagers Ferry Road, F	funtersville, NC 28078		2117680-16 Work Order # (or Repair/	Replacement	Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name				Type Code Symbol Stamp: N/A Authorization No.: N/A			
	526 South Church Street, C Address			Expiration I	Date: N/	A	
4. Identification of	System CA - Auxiliary Feedwater					September of the company of the september of the septembe	Charles van der entstelle state (sample
(b) Applicable l	Construction Code ASME III Edition of Section XI used for Reparental Code Case(s) N/A	ir/Replacement Activity		tion, Summer and Winter 1999 and 2000 Addenda	Add	ienda, N/A	Code Case
6. Identification of	Components						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
CA Piping	Duke Energy	N/A	73	N/A	1982	Corrected	Yes
2CA291	Velan	142007-1	N/A	N/A	2014	Installed	Yes
17							
			,				
7. Description of W	ork Add New Componer	nt/Part/Appurtenance/We	ld				June (Tital Land Land Land Land Land Land Land Land
Additional Descrip	Added piping and v	valve 2CA291 per EC111	274.			ه جيندرون سود و جينونه > شاه کيدوندنداندوندون و در	
8. Tests Conducted			Pressure Exem	pt 🗆 Other 🗀 Pressure	1500 p	SI Test Temp.	66.7 °F
Description (Option	al): Test performed per procedure	MLY/U/A//650/076.					

9. Remarks (Should Include the Following Information, as Applicable):	Sheet 2 of 2
Component Line Size: 1, 2, & 3 in. (nominal) System Class: ASME Class 3	
Weld Isometric Drawing No(s).: MCFI-2CA55 & 2CA62	
Flow Diagram No(s).: MCFD-2592-01.01	antina antina managaman (C. San Amusia antina), antina antina superior — A. San San Amusia antina da substituta e rapid de deser-
Support/Restraint Sketch/Drawing No(s).: N/A	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
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 Co	ode, 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 May 6 , 20 14
Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION	٠ - ٠٠
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspector	s and the State or Province of
North Carolina and employed by The Hartford Steam Boiler Inspe	of
Connecticut have inspected the components described in this O	wner's Report during the period
13-17-19 to 15-12-19, and state that to the best of my knowledge and belief, the Ow measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	mer has performed examinations and taken corrective
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning	ing 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 pe arising from ar connected with this inspection.	rsonal injury or property damage or a loss of any kind
arising from a connected with this hispectical.	
JF Swan Lersmo F- Man Commissions NB11473-NC1524,	N-I
Inspector's Signature National Board, State, Province, and Endorsen	
Date 5-12-, 2014	

142007-1 THRU-2

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 61 <u>2</u>
I. Manufactured and cer	rified byVELAN INC	., 550 MC ARTHUR STREE	T, MONTREAL, QUEBEC, H4	T 1X8, CANADA.
. Manufactured for D	luka Enerry Carolinae 14 C	Cont ID: DENHALL S.C. Box	es of N Certificate holder) It 37925, Charlotte, NC., 28237	. 7036 Abritant Chatan
		b eserbbe bne emen)	f Purchaser)	
. Location of Installation	McGuire Nuclear Station	n / Duke Energy Carolinas, Li NC, 28078-8985 (name and	LC 13225 Hagers Ferry Road, , United States.	Hwy 73, Huntersville,
. Model No., Series No	., or Type <u>02MSN-W</u>			RN NA
i. ASME Code, Section	(edito			N/A (Code Case no.)
	0 Cl. Bolted onnet Gate Valve Nominal ink	et size <u>2.00"</u> (Outlet size 2.00°	_
: 7. Material				
	ASME SA 105 (*1) Bonnet Cover	ASME SA 105 WEDGE / Disk Botting	ASME SA 105 (*1) Bolting	ASME SA 193, Gr.87 (*1) ASME SA 194, Gr.2H (*1)
(a) Certificate Holder's Serial No.	(b) National Board No.	√ (c) Body/Casing Serial No.	√ (d) Bonnet/Cover Serial No.	(e) Disk / WED G & Seriel No.
142007-1	N/A	4007 /	19495 /	
142007-2	N/A	4010 /	19496 /	7703 / 7701 /
		1		
			-	
er or the group	Wedn.			<u> </u>
FOR WORKER FOR THE	Specific Control			
		4		

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2031411/2

PAGE 04 OF 60 5

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

î û	direction from	, د٠	Certificate Holder's Ser			erial No. 162007-17 Thru -2/		
8. Design conditions	2100 psig	160 °F	_ or valve pressure class	3	900 Cla	\$8		
9. Cold working pressure	Constant of	(inipolatio)						
10. Hydrostatic test <u>Sh</u>	ell - 3250 psig Disi	differential test pres	nue	N/A ps	<u> </u>			
	T VALVE DRAWING.							
(71) Matte	NEI CONTORNS TO ASME	code section il part A	' 2007 Edition, None Adde	ence.				
		CERTIFICATIO	N OF DESIGN					
Design Specification of by	ertified	R.E. Miller	P.E. State	NC	Reg. no.	4860		
Design Report certified t	ЭУ	M. Murphy	P.E. State	QUEBEC	Reg. no.	112521		
We certify that the states	ments made in this rec	CERTIFICATION C	OF COMPLIANCE hat this pump or valve co	informs to the	ndes for co	nstruction of the		
ASME Code, Section III,								
N Certificate of Authoriza	tion No.	N-2797-2	Expires	0	4 May 2016	<u>}</u>		
Date 04 March 2014	Name	VELAN INC.	Signed	سيو)				
		(N Cartificate Holder)		(auth	orizad represente	(44)		
		CERTIFICATION	OF INSPECTION					
, the undersigned, holdin	g a valid commission i	ssued by the National	Board of Boiler and Press	sure Vessel ins	pectors and	employed by		
		RÉGIE DU BÂTIM	ENT DU QUÉBEC					
of	Québec		have inspected the pump,	, or valve, desc	ribed in this	Data Report on		
Valve(s) / Valve part(s)	and state that to the be	est of my knowledge a	nd belief, the Certificate H	inider has cons	facted this	oumo, ar valve.		
n accordance with the Alay signing this certificate	SME Code, Section III, o neither the inspector poort. Furthermore, ne	Division 1. nor his employer mai than the inspector nor	kes any warranty, express his employer shall be flat	sed or implied,	concerning	the componen		
Date 2014-03-04	Signed me	W	Commission 124	COALL CHUP	RUN	QC# 1432		
	y	(Adhorized Nuclear Inspector)		(Hational Bo	ard Number and I	Endorsament) S		

(07/11)

2031411/2

PAGE 05 OF 60

Receivi	ng Inspec	tion Report	Form SCD-31	1A Rev.: 13	Page 1 of 2	
Purchase Order No	174549	□ SCD-25	Stock/Cat ID:	887364	tD: 130566	
Station MC	MED8 ID.:	. NA	Part No.: BY DESCR	RIPTION QA	Shop No.: 0973	
Vendor VELAN VAL	VE CORP		Manufacturer VELAN	VALVE CORP		
Item No. Tol	tal Quan.	UTC No.	Heat No. Lot	No./Batch No.	Serial No.	
1 2	<u> </u>	See Altachi	ment for complete listin	ng of these entries.		
Description: VALV	E, GATE, N, FLEX WI	EDGE, 2", 06H-219, 900 LB,	MANUAL, CARBON STI	EEL		
By Size	Pass Fail Ve	ndor Perfo	xamination, and Testing		ocedures/Standards Used	
DLW 2 DLW 2		ヹ ゚゠゠゚゙゠	tion/Workmanship Z Approx. Tole	rance I033 PAI	Rev.: 13	
		Electrical		1300174		
DLW 2	2 0	<u></u>	Yes O No			
		Weight	·, - · · · · · · · · · · · · · · · · · ·			
		Pressure: Chem. Analysis:			QA Condition: 1	
		Physical Properti	98		Commercial Grade	
		Other			Commercial Grade Over-Check	
Comments			·			
All drwgs. Etc. were a	approved per Terry Co	x-RI. "O" to be removed by T	Сох.			
	Calit	orated Test, Examination, a	nd Inspection Equipme	ont Used:		
Instrument Ty	pe	Model Number	Serial Numbe	er	Calibration Due	
]				
I. Description	of Problem	Problems Sent To:		8 V:		
Ortological		7			Date:	
Originator		Phone #:	FAX #:		Date:	
Accepted By:	David L. Wrigh	t, Jr.	·····	Date:	3/7/2014	
- <u>-</u>		(Level II Receiving Ins	spector)			
Final QA Approval	!:			Date:		

Receiving Inspection Report

Form SCD-311A Rev.: 13 Attachment - UTC Entry Listing

Page 1 of 1

Purchase Order	No.	174549	MEDB ID.:	NA	Stock/Cat ID:	887364	ID:	130566
	Quan.	UTC No.	Heat No.	Lot No./B	atch No.	Serial No.		
	1	2031411	NA	N	A	142007-1		
ſ	1	2031412	NA	N	Ą .	142007-2		

Accepted By:	David L. Wright, Jr.	Date:	3/7/2014
	(Level II Receiving Inspector)		

		As Required by the	Provisions of the ASME Co	de Section XI			
1. Owner <u>Duk</u>	Energy Carolinas, LLC			Date 5/6/2014			
526	South Church Street, Charlott	e, NC, 28201		- Sheet 1 of 2			
2. Dlama	Address						
2. Plant	McGuire Nuclear Station	•'		Unit 2			
		1. Huntersville, NC 28078		2124934-11			
	Add	ress		Work Order # (or Repain	Replacement	Organization P.O. No., Jo	b No., etc.)
3. Work Performed by <u>Duke Energy Carolinas, LLC</u> Name			Type Code Symbol S	Type Code Symbol Stamp: N/A			
			_	Authorization	No.: N/	A	
	· · · · · · · · · · · · · · · · · · ·	t. Charlotte, NC 28201-1006 bress	<u></u>	Expiration 1	Date: N/	A	
4. Identification of Sy	stem CA - Auxiliary Feedwa	iter					
5. (a) Applicable Co	nstruction Code ASME III ition of Section XI used for R	enair/Replacement Activity		ition, Summer and Winter	Add	enda, N/A	Code Case
`	ction XI Code Case(s) N/A				· · · · · · · · · · · · · · · · · · ·		
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-CA-5571	Duke Energy	N/A	N/A	N/A	N/A	Installed -	- Yes
							Electric Carrier C
	Appeller I Desgripelier sein der mit geben er ermeinen dem betrette geben dem betrette in der Bereiten gegen der Gebote erleite des des des des des des des des des de	Separat data of the Contract Co				1	
					#===		-
					-11		
7. Description of Wor	rk Add New Compo	onent/Part/Appurtenance/W	eld				
Additional Descript	ion Installed hanger	2MCA-CA-05571 per EC1	11274.				
8. Tests Conducted:	Hydrostatic Pneumatic	Nominal Operation	Pressure Exem	npt 🗹 Other 🗆 Pressur	e P	SI Test Temp.	o _F
Description (Optional	l):						

9. Remarks (Should Include the Following Inform			Sheet 2 of 2
	nominal) System Class: ASME	Class 3	
Weld Isometric Drawing No(s).: N/A			
	MCFD-2592-01.01		
1	2MCA-CA-5571		
Other Applicable Information (e.g., W.O. No.	., EC No.) if not included elsewhere on NIS-2	Form:	
	Applicable Manufacturer's Data Repo	orts to be attached	
	CERTIFICATE OF COM		
I certify that the statements made in the report ar	e correct and that this conforms to the requirer	ments 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 Allay	Date Ma	y 6 20 14
Owner or Owner's Design		was a second	, 20
<u> </u>			
<u> </u>	CERTIFICATE OF INSERVIO	CE INSPECTION	
	ssued by the National Board of Boiler and Pres	ssure Vessel Inspectors and the State or Province of	name record merchanish a sarm ar "rad" reasonad "V" ambruad
North Carolina	and employed by The Hartfo	ord Steam Boiler Inspection and Insurance Company	of of
Connecticut		nts described in this Owner's Report during the period	
3-22-14 10 5-6-1		edge and belief, the Owner has performed examination	ons and taken corrective
measures described in this Owner's Report in acc			
Ry signing this certificate neither the Inspector n	or his employer makes any warranty, express:	ed or implied, concerning the examinations and corr	ective 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 dama	age or a loss of any kind
arising from or connected with this inspection.			
JF Swan & crove F. L.	Commission	ns NB11473-NC1524, N-I	*
Inspector's Signature		State, Province, and Endorsements	
	·		
Date $\int 5-6$, 20	14		

		As Required by the	Provisions of the ASME (Code Section XI				
1. Owner	Duke Energy Carolinas, LLC	·		— Date 5/8/2014	Date 5/8/2014			
	526 South Church Street, Charlotte, NC, 28201 Address			— Sheet 1 of 2		···		
2. Plant	McGuire Nuclear Station Nan	ne		Unit 2				
	12700 Hagers Ferry Road	L. Huntersville, NC 28078		2124934-16 Work Order # (or Rena	ir/Renlacement	Organization P.O. No., Joh	No etc.)	
3. Work Perform	· · · · · · · · · · · · · · · · · · ·	Duke Energy Carolinas, LLC Name			Type Code Symbol Stamp: N/A			
	526 South Church Street Add	Charlotte, NC 28201-1000	5	Authorization Expiration	577			
4. Identification	of System CA - Auxiliary Feedwa	ter						
5. (a) Applicable (b) Applicable	e Construction Code ASME III e Edition of Section XI used for Re e Section XI Code Case(s) N/A			dition, Summer and Winter he 1999 and 2000 Addenda	Add	lenda, N/A	Code Case	
6. Identification	• • • • • • • • • • • • • • • • • • • •		······································				;·	
Name of Component		Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
CA Piping	Duke Energy	N/A	73	NA	1982	Installed	Yes	
2CA294	Velan	142007-2	N/A	N/A	2014	Installed	Yes	
		Section 1		The state of the s				
							+	
7. Description of	Work Add New Compo	nent/Part/Appurtenance/W	eld			· 		
Additional Desc	Added piping, b	olting material at 2" blind f	lange, and valve 2CA	294 per EC111274.				
	ed: Hydrostatic Pneumatic		Pressure Exe	mpt Other Pressu	re 1450 p	SI Test Temp. 7	0 of	
Description (Opt	ional): Test performed per proced	ure MP/0/A/7650/076.				····		

9. Remarks (Should Include the Following Information, as Ar Component Line Size: 1/2 1 2 & 3 in (nominal)	· • • • • • • • • • • • • • • • • • • •		•	Sheet 2	of 2
in (nominar)	System Class:	ASME Class 3		*	
Weld Isometric Drawing No(s).: MCFI-2CA57		4	<u> </u>		
Flow Diagram No(s).: MCFD-2592	2-01.01				
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 D	ata Reports to be attached	·	÷. ::	
	CERTIFICATE O	F COMPLIANCE			
I certify that the statements made in the report are correct and	that this conforms to the re	equirements of the ASM	IE Code, Section	ı XI.	
Type Code Symbol Stamp N/A	entri et entritume morramentulus EE entlint et et. Johannamentulusetti ess suotima S		:		
			<u>.</u>		
Certificate of Authorization No. N/A	ander z alter die jedie gestelle gebeutele der einstelle der eine de	and the second section of the	٠.	Expiration Date N/A	
Ceruncale of Authorization No.				Expuation Date	·
Signed FL Grass, Quality Assurance Technical Specialist	17	Three	en equi construction project and an execution of	Date May 8	20[14]
Owner or Owner's Designee, Title	S. S. J.				
				} .	
	CERTIFICATE OF INSI	ERVICE INSPECTIO	N ·		
I, the undersigned, holding a valid commission issued by the	National Board of Boiler a	nd Pressure Vessel Insp	ectors and the St	ate or Province of	
North Carolina	and employed by The	Hartford Steam Boiler	Inspection and I	nsurance Company	of
Connecticut		nponents described in the	:	•	
3-17-19 to 5-12-14 and s	•	•	•	formed examinations and tak	en comective
measures described in this Owner's Report in accordance with					~ ·
		•			
By signing this certificate neither the Inspector nor his emploin this Owner's Report. Furthermore, neither the Inspector ne	yer makes any warranty, ex	cpressed or implied, con	cerning the exam	ninations and corrective mea	sures described
arising from or connected with this inspection.	or ms employer snan de na	ole in any manner for a	ry bersonar mjur	y or property damage or a for	ss of any king
- //	·	S, 3	<u>;</u>	•	
JF Swan (promet wan	Comr	nissions NB11473-NC	1524, N-I		
Inspector's Signature		Board, State, Province, and En			
Date 5-12-, 20/4					

FORM NPV-1 (Back - Ps. 2 of _2.)

	e e e		Certificate Hol	dera Seriel No.	142007-1/ Thru -2/
8. Design conditions	2100 pelg	180 °F o	velvo pronoure clas		0 Class
9. Cold working pressure	2160 patr	4			7
10. Hydrostelic test Shell	- 3250 peta	Disk differential test preseure		N/A pala	
11. Remarks AS BUILT	VALVE DRAW	ING. ISME code section II part 'A' 200			
	· CONTRACTOR IS A				
		· · · · · · · · · · · · · · · · · · ·			
	· · · · · · · · · · · · · · · · · · ·	CERTIFICATION O	DESIGN		
Deelgn Specification cer	tifled	O E Miles	P.E. State	NC Reg.	no. 4860
by Design Report certified by		R.E. Miller M. Murphy	P.E. State	CUEBEC Reg.	
·		CERTIFICATION OF C	OMPLIANCE		•
We certify that the stateme ASME Code, Section III, Di		nis report are correct and that t	ria pump or valve o	onforms to the rules	for construction of the
N Certificate of Authorization	n No.	N-2797-2	Expires ,	04 Ma	y 2016
Date 04 March 2014	Name	VELAN INC.	8igned		~
		(N Cortificate Holder)		(popular)	
		CERTIFICATION OF I	NSPECTION		·
I, the undereigned, holding	a valid commis	ision leaved by the National Bos RÉGIE DU BÂTIMENT		eure Vecesi inspecto	rs and employed by
of	Québec	, ,		o, or valve, described	in this Date Report on
Valve(s) / Velve pert(s) , ar	ed state that to	the best of my knowledge and b	allof, the Cartificate i	Holder han constructs	d this pump, or valve.
in accordance with the ASA	AE Code, Secti	on III, Division 1.	•	•	• • • • • • • • • • • • • • • • • • • •
described in this Data Rep property damage or a loss	mater the inteport. Furthermore of any kind aris	ector nor his employer makes re, gaither the impector nor his inglighty opequipected with this i	uny warranty, espec omployer chall be ile nepection.	esse or empseo, com ble in any manner fo	rany personal injuty or
Date 2014-03-04	Signed of	AV W	Commission /24	COALL CHEMIN	OC# 14324
		(Adherted Nation-Imposts)		(Mallored Short Hyr	

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2031411/2

PAGE 05 OF 60

· 142007-1 THU-2

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

				79.1018
1. Manufactured and certi	fied by VELAN INC.	. 550 MC ARTHUR STREET	T. MONTREAL, QUEBEC, MA	T 1XI CANADA
		inems and makes	ne of M Cartiflants Author)	
2. Manufactured forDu	ke Energy Carolines, LLC,	Dept ID: DPNMMS, P.O. So:	37825, Charlotte, NC., 2823	7-7925, United States.
	Magazin Abada an Marita	(rome and address of		
3. Location of installation	McGuire Ruclear Sanion	/ Duka Energy Carolines, LI NC, 20079-8065	LC 13226 Hagers Ferry Road	, Hay 73, Huntersville,
or continue or altitudent	«—————————————————————————————————————	(mana) jud	divers	
	W08-7084B-	· · · · · · · · · · · · · · · · · · ·		
4. Model No., Series No.,	or Type <u>02M8N-W</u>	Drawing <u>P012-6701</u>	<u>23-N01</u> Rev. <u>D</u> C	RN NA
5. ASME Code, Section II	i, Division 11971	D		AMA
o. Nome Code, decion il	I, DIVISION 1 TRAIN	Summer 1		N/A (Code Cose (st.)
900	Ct. Bolted			,—————————————————————————————————————
	nnet Gate			•
6. Pump or valve	Valve Nominal inte	t size(Outlet elze2.00°	
T Almborial				•
7. Meterial				ABME SA 193.
	•			Gr.87 (*1)
./ A	SME SA 105 🏒 📝	ASME SA 105 WEDGE		ASME SÀ 194,
(a) valve Body	SME SA 105 (*1) Bonnet	(*1) Disk	ASME 8A 105 (*1) Bolling	
(b) pump Casing	Cover	Boiling _		
4-1	***	14.1		4.
(e) Cartificate	(b) National	Dody/Cooling	√ (d) Sannet/Caver	Disk / MEDG &
Holder's	Boará	Seriei	Serial	Seriel
Serial No.	No.	No.	No.	No.
	A//A	4045	4040	
142007-1	N/A N/A	4007 /	19495 /	7703
1560174		4010 7	19900	7791
				
	·	*		
	-			

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A THEORY IN THE SECTION	.;			
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PAGE 04 OF 60

1. Owner <u>Duke E</u>	nergy Carolinas, LLC			- Date 5/8/2014			
526 So	uth Church Street, Charlotte, NC	2. 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu Address	ntersville, NC 28078		2124935-16 Work Order # (or Repair/R	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol Sta	5.77		
	526 South Church Street, Cha Address	rlotte, NC 28201-1006		Authorization Expiration D	DT/	······································	
4. Identification of Syste	m CA - Auxiliary Feedwater						
 (a) Applicable Const (b) Applicable Edition 	ruction Code ASME III on of Section XI used for Repair	Replacement Activity		ion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A	Code Case
(c) Applicable Section	n XI Code Case(s) N/A						
6. Identification of Comp	onents	<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)
CA Piping	Duke Energy	N/A	73	N/A	1982	Installed	Yes
2CA297	Velan	142006-2	N/A	N/A	2014	Installed	Yes
				A subsequent and the second se			
	and discount it was summarized as the Supplementalities, we did it is a first state.			Some support to Self, Support South Self and support adjustment to the support to the support to the desirable of the support to the support			
		a trial companies of the contract of the contr					
7. Description of Work	Add New Component	Part/Appurtenance/Weld	<u>d</u>				
Additional Description	Added piping and va	ve 2CA297 per EC1112	274.				
8. Tests Conducted: Hy	drostatic Pneumatic	Nominal Operation P	ressure Exemp	t Other Pressure	1353 P	SI Test Temp. 7	5 of
Description (Optional):	Test performed per procedure N	<u>ap/u/a/7650/076,</u>					

9. Remarks (Should Include the Following Inform	• • •	Sheet 2 of 2
	nominal) System Class: <u>ASME Cla</u>	<u>iss 3</u>
Weld Isometric Drawing No(s).: MCFI-2CA	.58 & 2CA63	
Flow Diagram No(s).:	MCFD-2592-01.01	
Support/Restraint Sketch/Drawing No(s).:	N/A	
Other Applicable Information (e.g., W.O. No.,	, EC No.) if not included elsewhere on NIS-2 Form	m:
	Applicable Manufacturer's Data Reports to	be attached
	CERTIFICATE OF COMPL	IANCE
I certify that the statements made in the report are	correct and that this conforms to the requirement	ts 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 S	specialist Tal Hay	Date May 8 . 20 14
Owner or Owner's Designe		
	CERTIFICATE OF INSERVICE I	NSPECTION
I, the undersigned, holding a valid commission is	sued by the National Board of Boiler and Pressure	e Vessel Inspectors and the State or Province of
North Carolina	and employed by The Hartford S	Steam Boiler Inspection and Insurance Company of
Connecticut	have inspected the components d	lescribed in this Owner's Report during the period
3-13-14 to 5-12-14	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 acc		
By signing this certificate neither the Inspector no in this Owner's Report. Furthermore, neither the	or his employer makes any warranty, expressed or Inspector nor his employer shall be liable in any r	r implied, concerning the examinations and corrective measures described manner for any personal injury or property damage or a loss of any kind
arising from of connected with this inspection.	9	
JF Swan Jorgana F. Su	151	TD11472 NC1524 N I
If Swan Profile Inspector's Signature		IB11473-NC1524, N-I Province, and Endorsements
Date $5-/2$, 20	79	

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

Pg. 1 of 2 Manufactured and certified by _ VELAN INC., 550 MC ARTHUR STREET, MONTREAL, QUEBEC, H4T 1X8, CANADA. (name and address of N Certificate holder) 2. Manufactured for __Duke Energy Carolinas, LLC, Dept ID: DPNMNS, P.O. Box 37925, Charlotte, NC., 28237-7925, United States. McGuire Nuclear Station / Duke Energy Carolinas, LLC 13225 Hagers Ferry Road, Hwy 73, Huntersville, 3. Location of installation NC, 28078-8985, United States. (name and address) B10-7054B-4. Model No., Series No., or Type **Drawing** P2-82186-N01 F CRN N/A Rev. 5. ASME Code, Section III, Division 1 1971 Summer 1973 N/A (edition) (Addanda (If spplicable) (date) (dass) (Code Case no.) 900 Cl. Bolted **Bonnet Gate** Valve Nominal Inlet size 3.00* 6. Pump or valve **Outlet size** 3.00 7. Material ASME SA 193, Gr.B7 (*1) **ASME SA 105 ASME SA 105** WEDGEY ASME SÀ 194. Body Bonnet (a) valve Disk ASME SA 105 (*1) Bolling Gr.2H (*1) **Bolting** (b) pump Casing Cover (b) √ (c) √ (d) Certificate National Body/Casing Bonnet/Cover Holder's Sertal **Board** Serial Serial Serial No. No. No. No. No. 142006-1 NA 8546 19512 7699 142006-2 NA 4091 19511 7700 CC 2 143. KURRUHT רב יו בי מין גון ע עם נפבע

"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; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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(07/10)

PAGE DAL OF 53

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

Certificate Holder's Serial No.

Thru -2 100 °F 900 Class 8. Design conditions 2160 psig or valve pressure class 2160 paig 9. Cold working pressure 10. Hydrostatic test Shell - 3250 psig . Disk differential test pressure N/A psig 11. Remarks AS BUILT VALVE DRAWING (*1) Material conforms to ASME code section II part 'A' 2004 Edition, None Addenda. **CERTIFICATION OF DESIGN** R.E. Miller Design Specification certified by P.E. State Reg. no. Design Report certified by N/A NA P.E. State NA Reg. no. **CERTIFICATION 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-2797-2 04 May 2016 Expires Date 04 March 2014 Name **VELANING.** Signed (N Certificate Holder) **CERTIFICATION OF INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by RÉGIE DU BÂTIMENT DU QUÉBEC Québec have inspected the pump, or valve, described in this Data Report on of Valve(s) / Valve , 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 conperted with this inspection. _ Commission 12468AN1 CAPPRIN Date 2014-03-04 Signed (Authorized Juckeur Inspector) (National Board Number and Endorsement)

(07/11)

PAGE 05 OF 53

BOR OF BATHERY DO GUÉBEC

142006-1

		As Required by the	Provisions of the ASME	Code Section XI			
1. Owner <u>Duk</u>	e Energy Carolinas, LLC			Date 4/6/2014			
526	South Church Street, Charlotte Address	, NC, 28201		Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Nam	e		Unit 2			
	12700 Hagers Ferry Road			2139324-02	nir/Renlacement	t Organization P.O. No., Jo	ob No. etc.)
3. Work Performed by	y <u>Duke Energy Carolinas, I</u> Name	LLC c Charlotte, NC 28201-100	6	Type Code Symbol Authorizati Expiration	Stamp: $\frac{N}{N}$ on No.: $\frac{N}{N}$	/A /A	70 No., etc.)
4. Identification of Sy	ystem SM - Main Steam	man make, among disting the plant is \$10.700 official contributions. Assessed the billion of the contribution of the contribut	al V 30 to min-make al . A right any mine, some arrays and their also supplied a			All design and the second seco	
(b) Applicable Ed	onstruction Code ASME III lition of Section XI used for Rection XI Code Case(s) N/A	pair/Replacement Activity		dition, Summer and Winter he 1999 and 2000 Addenda	Add	denda, N/A	Code Case
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-SM-11	Duke Energy	00123	N/A	N/A	N/A	Removed	Yes
2MCA-SM-11	Duke Energy	21930	N/A	N/A	N/A	<u>Installed</u>	<u>Yes</u>
and the second s							
						L L	-
							
7. Description of Wor	rk Replaced Compon	ent/Part/Appurtenance					<u></u>
Additional Descripti	ion Replaced snubbe	r on hanger 2MCA-SM-11					
8. Tests Conducted: Description (Optional	The second second second second second	Nominal Operation	Pressure Exe	mpt Other Press	areP	PSI Test Temp.	oF

9. Remarks (Should Include the Following Infor		Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class: ASME Class 2	
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).:	MCFD-2593-01.00	
Support/Restraint Sketch/Drawing No(s).:	2MCA-SM-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 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 ASME	3 Code, Section XI.
Type Code Symbol Stamp N/A		
N/A		DATA
Certificate of Authorization No. N/A		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	1 Specialist Than	Date April 6 20 14
Owner or Owner's Desig		Date Page 5, 40
<u> </u>	CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vessel Inspec	ctors and the State or Province of
North Carolina	and employed by The Hartford Steam Boiler In	spection and Insurance Company of
Connecticut	have inspected the components described in this	
3-24-14 6 4-9-19	and state that to the best of my knowledge and belief, the	
measures described in this Owner's Report in ac	ccordance 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, conce	aming the examinations and competitive measures described
in this Owner's Report. Furthermore, neither th	nor his employer makes any warranty, expressed or implied, concerne 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.		
F	ADJUGTO NOIS	
JF Swan Orono Inspector's Signature	Commissions NB11473-NC15	والوالي والمساورة والمراق والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة
Inspector of Signature	transina Doard, Jian, 110711100, and Linux	rsements
Date 4= 4, 2	074	

		As Required by the	Provisions of the ASME C					
1. Owner <u>Duke</u>	Energy Carolinas, LLC			— Date 4/9/2014				
526	South Church Street, Charlotte, Address	NC, 28201		— Sheet 1 o	\mathbf{f}^{2}			
2. Plant	McGuire Nuclear Station			Unit 2				
	12700 Hagers Ferry Road, I			2144518-02 Work Order #	(or Repair/Rep	lacement (Organization P.O. No., Jo	b No., etc.)
3. Work Performed by	Duke Energy Carolinas, LI Name	C.C.		Type Code S	ymbol Stam	12.77		
	526 South Church Street, C Addres		6		piration Date	577	4	
4. Identification of Sy	stem NS - Containment Spray							
(b) Applicable Edi	nstruction Code ASME III tion of Section XI used for Rep	air/Replacement Activity		dition, Summer and Water 1999 and 2000 Add		Add	enda, N/A	Code Case
	tion XI Code Case(s) N/A			<u> </u>				
6. Identification of Co	mponents							-
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	n Ì	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
NS Heat Exchanger	Joseph Oat & Sons Inc.	2514	5765	N/A		1990	Corrected	Yes
		*						
	The first of the second	A representation of the second						
7. Description of Wor	k <u>Replaced Compone</u>	nt/Part/Appurtenance						
Additional Description	on Replaced bolting n	naterial in man way of C	ontainment spray heat	exchanger				
8. Tests Conducted:	property and the second of the second second second second second		Pressure Exer	npt Other O	Pressure _	P	SI Test Temp.	of
Description (Optional)	test performed per procedure	MP/0/A/7700/045.						

9. Remarks (Should Include the Following Information			Sheet $\frac{2}{2}$ of $\frac{2}{2}$
	(nominal) System Class:	ASME Class 2	
Weld Isometric Drawing No(s).: N/A			
Flow Diagram No(s).:	MCFD-2563-01.00		
Support/Restraint Sketch/Drawing No(s).:	N/A		
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere or	n 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, S	ection XI.
Type Code Symbol Stamp N/A			
g 115 a 176 a	er to - 1 Januar - Grand - Dr. George Thompson, n. 15, 2017 - Anne Stephen Scholle (1980) (1980) (1980) (1980)		
Certificate of Authorization No. N/A			Expiration Date N/A
Signed FL Grass, Quality Assurance Technical	Specialist 4	vne	Date April 9 20 14
Owner or Owner's Design			
I, the undersigned, holding a valid commission i	issued by the National Board of Boiler	SERVICE INSPECTION and Pressure Vessel Inspectors and	the State or Province of
North Carolina	and employed by Th	ne Hartford Steam Boiler Inspection	and Insurance Company of
Connecticut			
	nave inspected the co	omponents described in this Owner's	s report during the period .
3-31-14 to 4-10-1	, and state that to the best of my	knowledge and belief, the Owner ha	as performed examinations and taken corrective
3-31-14 to 4-10-1 measures described in this Owner's Report in ac	, and state that to the best of my	knowledge and belief, the Owner ha	• •
measures described in this Owner's Report in ac By signing this certificate neither the Inspector r	and state that to the best of my coordance with the requirements of the nor his employer makes any warranty,	knowledge and belief, the Owner had ASME Code, Section XI. expressed or implied, concerning the	as performed examinations and taken corrective e examinations and corrective measures described
measures described in this Owner's Report in ac By signing this certificate neither the Inspector r	and state that to the best of my coordance with the requirements of the nor his employer makes any warranty,	knowledge and belief, the Owner had ASME Code, Section XI. expressed or implied, concerning the	as performed examinations and taken corrective
measures described in this Owner's Report in ac By signing this certificate neither the Inspector r in this Owner's Report. Furthermore, neither the	and state that to the best of my coordance with the requirements of the nor his employer makes any warranty,	knowledge and belief, the Owner had ASME Code, Section XI. expressed or implied, concerning the	as performed examinations and taken corrective e examinations and corrective measures described
measures described in this Owner's Report in actions and By signing this certificate neither the Inspector of in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	and state that to the best of my coordance with the requirements of the nor his employer makes any warranty, the Inspector nor his employer shall be like	knowledge and belief, the Owner had ASME Code, Section XI. expressed or implied, concerning the liable in any manner for any personal mmissions NB11473-NC1524, N-I	as performed examinations and taken corrective e examinations and corrective measures described
measures described in this Owner's Report in ac By signing this certificate neither the Inspector r in this Owner's Report. Furthermore, neither the arising from or connected with this inspection.	and state that to the best of my coordance with the requirements of the nor his employer makes any warranty, the Inspector nor his employer shall be like	knowledge and belief, the Owner had ASME Code, Section XI. expressed or implied, concerning the lable in any manner for any personal	as performed examinations and taken corrective e examinations and corrective measures described

			As Required by the	Provisions of the ASME Co				
1. Owner	Duke Energ	zy Carolinas, LLC			— Date 4/30/2014			
	526 South Church Street, Charlotte, NC, 28201 Address			- Sheet 1 of 2]			
2. Plant	<u>M</u>	CGuire Nuclear Station			Unit 2			
	12	2700 Hagers Ferry Road, Hu	untersville, NC 28078		2145700-10	ir/Reniscement	Organization P.O. No., Jo	h No. etc.)
3. Work Perfor	-	Ouke Energy Carolinas, LLC Name 26 South Church Street, Ch Address		· · · · · · · · · · · · · · · · · · ·	Type Code Symbol Authorization Expiration	Stamp: N/	A A	
4. Identification	n of System	CF - Feedwater						
(b) Applica	ble Edition o	tion Code ASME III f Section XI used for Repair II Code Case(s) N/A	r/Replacement Activity		ition, Summer and Winter e 1999 and 2000 Addenda	Add	enda, N/A	Code Case
6. Identification	n of Compone	ents						
Name o		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2CF121	Pa	cific	0237-6	72	N/A	1977	Corrected	Yes
							•	
		and the second section of the section of						<u> </u>
7. Description	of Work	Replaced Component	/Part/Appurtenance					
Additional De	escription	Replaced body to bo	nnet bolting material on	valve 2CF121				
8. Tests Condu	· ,———		Nominal Operation	Pressure Exem	pt 🗆 Other 🗀 Presst	ire P	SI Test Temp.	o _F
Description (O	ptional): Te	st 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-2CF14 / 2CF17	
Flow Diagram No(s).: MCFD-2591-01.01	
Support/Restraint Sketch/Drawing No(s).: N/A	
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewhere on NIS-2 Form:	
Applicable Manufacturer's Data Reports to be attached	
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Se	ection XI.
Time Code Symbol Stome	
Type Code Symbol Stamp N/A	
particular file of the control of control of the co	le i un vigente como ambiente envidente i por cambina.
Certificate of Authorization No. N/A	Expiration Date N/A
Signed FL Grass, Quality Assurance Technical Specialist	Date April 30 . 20 14
Owner or Owner's Designee, Title	Date April 30 , 20 14
L	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and t	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
$\frac{4-30-14}{4}$ to $\frac{4-30-14}{4}$, and state that to the best of my knowledge and belief, the Owner ha	s 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	avaminations and corrective measures described
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal	injury or property damage or a loss of any kind
arising from or connected with this inspection.	
JF Swan Commissions NB11473-NC1524, N-I	
JF Swan Commissions NB11473-NC1524, N-I Inspector's Signature National Board, State, Province, and Endorsements	
Date 7-50, 20/1	

1. Owner <u>Duke</u>	Energy Carolinas, LLC			—— Date 4/6/2014			
526	South Church Street, Charlotte	e, NC, 28201		Sheet $1 of 2$			
2. Plant	McGuire Nuclear Station	ne.		Unit 2			
	12700 Hagers Ferry Road	Huntersville, NC 28078		2146084-01			
	Addr	ress		Work Order # (or Rep	air/Replacemen	t Organization P.O. No., Jo	ob No., etc.)
3. Work Performed by	Duke Energy Carolinas, Nam			Type Code Symbol	• 75		-
	526 South Church Street	Charlotte, NC 28201-100	6	Authorizati			- 1
	Add			Expiration	Date: N	/A	
4. Identification of Sy	stem RN - Nuclear Service V	Vater		d Vehiclinappass matematical plants & amigura (pri, pri biding pi frames indicate) pri pri		annual desiration of the second second second second desiration and the second desiration of the	and the second second
(b) Applicable Edi	nstruction Code ASME III tion of Section XI used for Re	pair/Replacement Activity		Edition, Summer and Winter the 1999 and 2000 Addenda	Add	denda, 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)
2MCA-RN-3130	Duke Energy	3380	N/A	N/A	N/A	Removed	<u>Yes</u>
2MCA-RN-3130	Duke Energy	3607	N/A	N/A	N/A	Installed	Yes
product states of the state of the state of the state of					1 1	The state of the s	
7. Description of Wor		nent/Part/Appurtenance	130				·
8. Tests Conducted: Description (Optional)	Hydrostatic Pneumatic			empt Other Press	ureI	PSI Test Temp.	o _F

9. Remarks (Should Include the Following Information, as Applicable):	Sheet $\frac{2}{2}$ of $\frac{2}{2}$
Component Line Size: 20 in. (nominal) System Class: ASME Class 3	princip a
Weld Isometric Drawing No(s).: N/A	
Flow Diagram No(s).: MCFD-2574-03.00	
Support/Restraint Sketch/Drawing No(s).: 2MCA-RN-3130	
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 Signed FL Grass, Quality Assurance Technical Specialist Date	en e
Owner or Owner's Designee, Title	April 6 , 20:14
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 Provinc North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Com-	e oi
nave 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.	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 Jarone L. Juran Commissions NB11473-NC1524, N-I	
Inspector's Signature National Board, State, Province, and Endorsements	

1. Owner <u>Duke E</u>	nergy Carolinas, LLC			- Date 4/6/2014			
526 So	uth Church Street, Charlotte, No	C, 28201		- Sheet 1 of 2			
0 D1 .	Address						
2. Plant	McGuire Nuclear Station Name			Unit 2			
•	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2146133-01			1
	Address			Work Order # (or Repair/R	Leplacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC	,		Type Code Symbol Sta	mp: N/	A	
				Authorization 1	No.: N/	A	
	526 South Church Street, Char Address	arlotte, NC 28201-1006		Expiration D	ate: N/	A	
4. Identification of Syste	em l						
_	ruction Code ASME III		19 71 Edit	ion, Summer and Winter	Add	enda, N/A	Code Case
	on of Section XI used for Repair	Replacement Activity					
(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-S-RN-530-1-H	Duke Energy	3754	N/A	N/A	N/A	Removed	Yes
2MCA-S-RN-530-1-H	Duke Energy	37044	'N/A	N/A	N/A	Installed	Yes
					[
See your department of the control o	Simple Control of the						1
							1
7. Description of Work	Replaced Component	Part/Appurtenance					
Additional Description	Replaced snubber on	hanger 2MCA-S-RN-53	30-01-H			***************************************	*****
8. Tests Conducted: Hy	ydrostatic Pneumatic C	Nominal Operation F	Pressure Exemp	t 🗹 Other 🗀 Pressure	P	SI Test Temp.	oF
Description (Optional):		· · · · · · · · · · · · · · · · · · ·		······································		·	

9. Remarks (Should Include the Following Information, as Applie Component Line Size:	•	: 03 CD CI		Sheet 2	of 2
- <u></u>	System Clas	ss: ASME Class 3			
Flow Diagram No(s).: MCFD-2574-0					
Support/Restraint Sketch/Drawing No(s).: 2MCA-S-RN-5					
Other Applicable Information (e.g., W.O. No., EC No.) if not	included elsewhere	on NIS-2 Form:			
	Applicable Manufactur	er's Data Reports to be atte	ached		
	CERTIFICATI	E OF COMPLIAN	CE		, '' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
I certify that the statements made in the report are correct and that	at this conforms to	he requirements of	the ASME Code, Section XI	•	
Type Code Symbol Stamp N/A	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
	, , , , , , , , , , , , , , , , , , , 				
Certificate of Authorization No. N/A	AND		Ŧ	Expiration Date N/A	Marie Company of the
Continuate of Authorization 140.			-	why	
Signed FL Grass, Quality Assurance Technical Specialist		Phon		Date April 6	, 20 14
Owner or Owner's Designee, Title					
		NSERVICE INSPI			
I, the undersigned, holding a valid commission issued by the Nat North Carolina	nonal Board of Boil	er and Pressure Ves	sel Inspectors and the State	or Province of	
	7		Boiler Inspection and Insur		of
Connecticut	have inspected the	components descri	bed in this Owner's Report of	luring the period	
3 - 30 - 14 to $4 - 1 - 14$, and state	that to the best of r	ny knowledge and b	pelief, the Owner has perform	ned examinations and tak	cen corrective
measures described in this Owner's Report in accordance with the	ne requirements of t	he ASME Code, Sec	ction XI.		
By signing this certificate neither the Inspector nor his employer	makes any warrant	v. expressed or imp	lied, concerning the examina	ations and corrective mea	sures described
in this Owner's Report. Furthermore, neither the Inspector nor h					
arising from or connected with this inspection.					
F/					
JF Swan Prone Inspector's Signature		ommissions NB114			
inspector's Signature	INS	honal board, State, Frovin	ce, and Engorsements		
Date 7 - 7 , 20/9					

1. Owner <u>Duke</u>	Energy Carolinas, LLC			— Date 4/6/2014			
526 S	outh Church Street, Charlotte, N	C, 28201		- Sheet 1 of 2]		
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu Address	antersville, NC 28078		2146430-01 Work Order # (or Repai	r/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 S			
	526 South Church Street, Ch Address	arlotte, NC 28201-1006		Authorizatio Expiration	5.7		
4. Identification of Syst	kem KC - Component Cooling						-
5. (a) Applicable Cons	struction Code ASME III ion of Section XI used for Repair	r/Replacement Activity		ition, Summer and Winter 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
(c) Applicable Sect	ion XI Code Case(s) N/A						
6. Identification of Con	nponents	<u></u>				** <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)
2MCA-KC-3041	Duke Energy	3719	N/A	N/A	N/A	Removed	Yes
2MCA-KC-3041	Duke Energy	31200602/005	N/A	N/A	N/A	Installed	Yes
			1				
7. Description of Work	Replaced Component	/Part/Appurtenance					
Additional Description	n Replaced snubber or	hanger 2MCA-KC-304	11, snubber was remov	ved on w/o 2099364.			
8. Tests Conducted: I		Nominal Operation	Pressure	pt 🗹 Other 🗆 Pressu	reF	SI Test Temp.	oF
Description (Optional):							

9. Remarks (Should Include the Following Infor	• • •		Sheet $\boxed{2}$ of $\boxed{2}$
	(nominal) System Clas	s: ASME Class 3	
Weld Isometric Drawing No(s).: N/A			
Flow Diagram No(s).:	MCFD-2573-02.00		
Support/Restraint Sketch/Drawing No(s).:	2MCA-KC-3041		
Other Applicable Information (e.g., W.O. N	o., EC No.) if not included elsewhere	on NIS-2 Form:	
	Applicable Manufacture	er'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 t	he requirements of the ASME Code	e, Section XI.
Type Code Symbol Stamp N/A			
Certificate of Authorization No. N/A	A COMMUNICATION OF AN ALL CANADAS CONTRACTOR MANAGEMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESSMEN		Expiration Date N/A
Signed FL Grass, Quality Assurance Technical		,	Date April 6 , 20 14
Owner or Owner's Design	gnee, Title		
v d d		NSERVICE INSPECTION	1 de Contra de Brancia de C
I, the undersigned, holding a valid commission North Carolina		er and Pressure Vessel Inspectors a The Hartford Steam Boiler Inspecti	in and Income of Comment
	and employed by		
Connecticut	have inspected the	components described in this Own	er's Report during the period
4-1-14 to 4-8-1			er has performed examinations and taken corrective
measures described in this Owner's Report in a	ccordance with the requirements of the	he ASME Code, Section XI.	
By signing this certificate neither the Inspector	nor his employer makes any warrant	y, expressed or implied, concerning	g the examinations and corrective measures described
in this Owner's Report. Furthermore, neither th	ne inspector nor his employer shall be	e liable in any manner for any person	onal injury or property damage or a loss of any kind
arising from or connected with this inspection.	/		}
JF Swan Grone F. Ly		ommissions NB11473-NC1524, N	omanifetimationalizat
Inspector's Signature		ional Board, State, Province, and Endorsemen	
		, ,,	
Date 4-8-, 2	20 7		ļ

1. Owner <u>Duke F</u>	Energy Carolinas, LLC			- Date 4/6/2014			
526 Sc	outh 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		2146542-01			
	Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name	<u> </u>		Type Code Symbol St	amp: N/	A	
	50 C	1 210 20221 1226		Authorization	No.: N/	Α	
	526 South Church Street, Ch. Address	ariotte, NC 28201-1006		Expiration I	ate: N/	A	
4. Identification of Syst	em RN - Nuclear Service Wate	?					
 (a) Applicable Cons (b) Applicable Editi 	truction Code ASME III on of Section XI used for Repair			tion, Summer and Winter 1999 and 2000 Addenda	Add	enda, N/A C	Code Case
	on XI Code Case(s) N/A		· · · · · · · · · · · · · · · · · · ·		·		
6. Identification of Com	ponents	,			,		Logo
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
see section 9	Duke Energy	7648	N/A	N/A	N/A	Removed	Yes
see section 9	Duke Energy	39004	N/A	N/A	N/A	Installed	Yes
			Commence Tenant In American	The second secon			
7. Description of Work	Replaced Component	Part/Appurtenance					
Additional Description	Replaced snubber on	hanger 2MCA-S-RN-53	32-1-PP				
8. Tests Conducted: H	lydrostatic Pneumatic P	Nominal Operation P	Pressure D Exemp	ot 🗹 Other 🗆 Pressure	P	SI Test Temp.	of
Description (Optional):	-						

9. Remarks (Should Include the Following Information	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).:	MCFD-2574-03.00	ritidar au tros de ambres, que aire, se que se que se que se personam de membre de distribuído e de tita em en	
Support/Restraint Sketch/Drawing No(s).:	2MCA-RN-532-01-PP		
Other Applicable Information (e.g., W.O. No	o., EC No.) if not included elsewhere	on NIS-2 Form:	
	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,	Section XI.
Type Code Symbol Stamp N/A			
IVA			
Certificate of Authorization No. No.	CORP		Expiration Date N/A
			•
Signed FL Grass, Quality Assurance Technical		ron	Date April 6 , 20 14
Owner or Owner's Desig	nee, Title		
I, the undersigned, holding a valid commission i		NSERVICE INSPECTION	laha Casa an Barriana af
North Carolina	ssued by the National Board of Bothe	The Hartford Steam Boiler Inspection	and Insurance Company
Connecticut			
	77	components described in this Owner	
3-31-17 to $4-7-17$ measures described in this Owner's Report in ac	, and state that to the best of my	y knowledge and belief, the Owner l	has performed examinations and taken corrective
measures described in this Owice 's Report in ac	cordance with the requirements of the	c ASME Code, Section AI.	
			he examinations and corrective measures described
in this Owner's Report. Furthermore, neither the arising from of connected with this inspection	inspector nor his employer shall be	liable in any manner for any persons	al injury or property damage or a loss of any kind
JF Swan Verore F. W	au co	mmissions NB11473-NC1524, N-I	
Inspector's Signature		onal Board, State, Province, and Endorsements	
(-4-7-	74		
Datè , 20	01.2_4		

		As Required by the	Provisions of the ASME Co	de Section XI			
1. Owner Di	ike Energy Carolinas, LLC	······································	·	— Date 5/6/2014			
52	26 South Church Street, Charlotte Address	e, NC, 28201		- Sheet 1 of 2			
2. Plant	McGuire Nuclear Station Nan	ne		Unit 2			
	12700 Hagers Ferry Road Add	Huntersville, NC 28078		2147122-20 Work Order # (or Repair/	Replacement	Organization P.O. No., Jol	b No., etc.)
3. Work Performed	by <u>Duke Energy Carolinas</u> , Nam			Type Code Symbol St	5.77		
	526 South Church Street Add	, Charlotte, NC 28201-1006 ress		Authorization Expiration I	NO		
4. Identification of	System NC - Reactor Coolant						
(b) Applicable l	Construction Code ASME III Edition of Section XI used for Resection XI Code Case(s) N/A	epair/Replacement Activity		lition, Summer and Winter e 1999 and 2000 Addenda	Add	lenda, N/A	Code Case
6. Identification of Name of Component	Components Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
NC Piping	Duke Energy	N/A	82	N/A	1982	Corrected	Yes
					<u> </u>		
7. Description of W	ork Replaced Compo	nent/Part/Appurtenance					
Additional Descri	ption Replaced 1 1/2"	bent piping at "D" Loop co	ld leg				
8. Tests Conducted	: Hydrostatic Pneumatic	Nominal Operation	Pressure Exem	npt Other Pressure	P	SI Test Temp.	°F
Description (Option	nal): [······································			

9. Remarks (Should Include the Following Information, as Applicable):		Sheet 2 of 2
	Class: ASME Class 1	
Weld Isometric Drawing No(s).: MCFI-2NC45		
Flow Diagram No(s).: MCFD-2553-01.00		
Support/Restraint Sketch/Drawing No(s).: N/A		
Other Applicable Information (e.g., W.O. No., EC No.) if not included elsewh	nere on NIS-2 Form:	
Applicable Manufa	acturer's Data Reports to be attached	
CERTIFICA	ATE 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	18 Muse Date	May 6 , 20 14
Owner or Owner's Designee, Title		
	F INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of B	Boiler and Pressure Vessel Inspectors and the State or Province	æ of
	The Hartford Steam Boiler Inspection and Insurance Com	of of
, making suggested and the same of the sam	the components described in this Owner's Report during the	period
	of my knowledge and belief, the Owner has performed exami	nations and taken corrective
measures described in this Owner's Report in accordance with the requirements of	of the ASME Code, Section Al.	
By signing this certificate neither the Inspector nor his employer makes any warr		
in this Owner's Report. Furthermore, neither the Inspector nor his employer shall arising from or connected with this inspection.	ll be liable in any manner for any personal injury or property	damage or a loss of any kind
ansing from or connected with this inspection.		
IF Swan Grove F. Juan	Commissions NB11473-NC1524, N-I	
Inspector's Signature	National Board, State, Province, and Endorsements	
Date 5-13 - 20/74		

1. Owner <u>Duke E</u>	nergy Carolinas, LLC	· · · · · · · · · · · · · · · · · · ·		— Date 4/8/2014			
526 So	uth Church Street, Charlotte, No	C, 28201		- Sheet 1 of 2			
0 m	Address						
2. Plant	McGuire Nuclear Station Name			Unit 2			
	12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2147306-01			
	Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Job	No., etc.)
3. Work Performed by	Duke Energy Carolinas, LLC Name			Type Code Symbol St			
	526 South Church Street, Cha	orlotte NC 29201 1006		Authorization			
	Address	miotie, 14C 28201-1000		Expiration I	Date: N/	A	
4. Identification of Syste	m NV - Chemical and Volume	Control					
	ruction Code ASME III on of Section XI used for Repair	Monte o o o o o o o o o o o o o o o o o o o		tion, Summer and Winter	Add	enda, N/A C	ode Case
·	on XI Code Case(s) N/A	Replacement Activity	1998 Edition with the	1999 and 2000 Addenda			
							
6. Identification of Com	ponents	1			7	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)
2MCA-S-NV-504-1-II	Duke Energy	865	N/A	N/A	N/A	Removed	Yes
2MCA-S-NV-504-1-II	Duke Energy	38842	N/A	N/A	N/A	Installed	Yes
				emplacelle files were bearing - day to be \$2.2700			
][
7. Description of Work	Replaced Component	Part/Appurtenance					
Additional Description	Replaced snubber on	hanger 2MCA-S-NV-50	04-1-П				
8. Tests Conducted: H	ydrostatic Pneumatic D	Nominal Operation P	Pressure Exemp	ot Other Pressure	P	SI Test Temp.	oF
Description (Optional):							

Sheet $\frac{2}{2}$ of $\frac{2}{2}$
tion Date N/A
Date April 8 , 20 14
Ale (147-1), 20(-1-1)
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Company of
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aminations and taken corrective
•
aminations and taken corrective

1. Owner _	Duke E	nergy Carolinas, LLC			- Date 4/19/2014				
_	526 So	uth Church Street, Charlotte, No Address	C, 28201		Sheet 1 of 2				
2. Plant		McGuire Nuclear Station Name			Unit <u>2</u>				
		12700 Hagers Ferry Road, Hu	ntersville, NC 28078		2148547-01	2148547-01			
		Address			Work Order # (or Repair/	Replacement	Organization P.O. No., Job	No., etc.)	
3. Work Perfo	ormed by	Duke Energy Carolinas, LLC Name			Type Code Symbol Stamp: N/A				
		526 South Church Street Cha	orlotte NC 28201-1006		Authorization	-			
526 South Church Street, Charlotte, NC 28201-1006 Address				Expiration I	Expiration Date: N/A				
4. Identificati	on of Syste	m NI - Safety Injection							
		ruction Code ASME III n of Section XI used for Repair	Renlacement Activity		ion, Summer and Winter	Add	enda, N/A C	ode Case	
		n XI Code Case(s) N/A	Topidomon riouvity	1270 Daniela Wall Inc	1777,000 2009,120000000_				
6. Identificati						<u>,, </u>	——————————————————————————————————————		
Name Compo	of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
2MCR-NI-4	570	Duke Energy	5143	N/A	N/A	N/A	Removed	<u>Yes</u>	
2MCR-NI-4	570	Duke Energy	37641	N/A	N/A	N/A	<u>Installed</u>	Yes	
2MCR-NI-4	570	Duke Energy	5522	N/A	N/A	N/A	Removed	Yes	
2MCR-NI-4	570	Duke Energy	37638	N/A	N/A	N/A	<u>Installed</u>	Yes	
						31/			
						∭		3	
7. Description	n of Work	Replaced Components	Part/Appurtenance			<u> </u>		<u> </u>	
7. Description Additional I			Part/Appurtenance	4570					
-	Description lucted: Hy	Replaced two snubbe			t ☑ Other □ Pressure	P	SI Test Temp.	o _F	

9. Remarks (Should Include the Following Inform	nation, as Applicable):	Sheet 2 of 2
Component Line Size: 10 in. (1	nominal) System Class: ASME Class 1	
Weld Isometric Drawing No(s).: N/A		
Flow Diagram No(s).:	MCFD-2562-02.01	
Support/Restraint Sketch/Drawing No(s).:	2MCR-NI-4570	
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 attache	d
	CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report an	e 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
El Grace Orolita Accurrace Technical S	Secretation III	
Signed FL Grass, Quality Assurance Technical S		Date April 19 , 20 14
	CERTIFICATE OF INSERVICE INSPEC	TION
I, the undersigned, holding a valid commission is	sued by the National Board of Boiler and Pressure Vessel	
North Carolina	and employed by The Hartford Steam Bo	oiler Inspection and Insurance Company of
Connecticut	have inspected the components described	in this Owner's Report during the period
4-14-14 to 4-20-1		ef, the Owner has performed examinations and taken corrective
measures described in this Owner's Report in acc	cordance with the requirements of the ASME Code, Section	n XI.
By signing this certificate neither the Inspector n	or his employer makes any warranty, expressed or implied	, concerning the examinations and corrective measures described
in this Owner's Report. Furthermore, neither the		for any personal injury or property damage or a loss of any kind
arising from or connected with this inspection.		·
JF Swan Orrore F	NID11472	NO1524 N I
JF Swan Provo	Commissions NB11473 National Board, State, Province, a	
Date 7-20, 20	74	

SECTION 6

6.0 Pressure Testing

Third Period - Third 10 Year Interval

This section contains a pressure test completion status for the examinations required during refueling outage 2EOC22 and the examinations required during the third period of the third tenyear 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 third period of the third ten-year interval. There are two Class 2 Zones that were completed after the close of breaker shown on NIS-1 Form but completed prior to the end of the interval which was July 15, 2014.

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	2	0		
С-Н	System Leakage Test (IWC-5220)	35	35	0		

There is (1) Class 1 (Category B-P) pressure test zone that requires pressure testing each refueling outage. Table 6-2 shows a completion status of the Class 1 (Category B-P) pressure test zone conducted during refueling outage EOC 22. There was no through-wall leakage observed during this pressure test.

	Table 6-2 Detailed Class 1 Listing				
Zone Number	Boundary Dwg	EOC22 Completion Status	EOC22 VT-2 Examination Date	Code Cases Used	
2NC-001L-A	MC-ISIL-2553-01.00	Complete	4/23/2014	N-566-2	
	MC-ISIL-2553-02.00				
1	MC-ISIL-2553-02.01				
	MC-ISIL-2554-01.00			:	
	MC-ISIL-2554-01.01			}	
ļ	MC-ISIL-2554-01.02				
	MC-ISIL-2561-01.00				
	MC-ISIL-2562-01.00				
	MC-ISIL-2562-02.00				
	MC-ISIL-2562-02.01				
	MC-ISIL-2562-03.00	}			
	MC-ISIL-2562-03.01				

There are (66) Risk Informed Segments (Category R-A) that are required to receive a pressure test each refueling outage. Table 6-3 shows a completion status of the (66) Risk Informed Segments pressure tested during refueling outage EOC 22. There was no through-wall leakage observed during these pressure tests.

	Table 6-3 Detailed Risk Informed Pressure Test Listing						
	EOC22						
	Zone Number	Boundary Dwg	Segment Number	Completion Status	EOC22 VT-2 Examination Date		
1	2NC-001L-A	MC-ISIL-2553-01.00	NC-18	All Complete	4/23/2014		
2		MC-ISIL-2553-02.00	NC-19				
3		MC-ISIL-2554-01.00	NC-20				
4		MC-ISIL-2554-01.01	NC-21				
5		MC-ISIL-2562-01.00	NC-23				
6			NC-086				
7			NC-89				
8			NC-90				
9			NC-054				
10			NC-055				
11			NC-056				
12			NV-033A				
13			NV-033B				
14			NV-034A				
15	!		NV-034B				
16			NV-037				
17			NV-038				
18			NV-041A				
19			NV-041B				
20			NV-042A				
21			NV-042B				
22			NV-030A				
23			NV-030B				
24			NV-032A				
25			NV-032B				
26			NV-035				
27			NV-036				
28			NV-039A				
29			NV-039B				
30			NV-040A				
31			NV-040B				
32		:	NI-068				
33	1		NI-069				
34			Ni-070				
35			NI-071				
36	2RI-001L-B	MC-ISIL-2554-01.00	NI-063B	All Complete	3/28/2014		
37		MC-ISIL-2554-01.01	ND-008C				

	Table 6-3 Detailed Class 2 Listing continued						
	Zone Number	Boundary Dwg	Segment Number	EOC22 Completion Status	EOC22 VT-2 Examination Date		
38		MC-ISIL-2554-01.02	ND-009C				
39		MC-ISIL-2554-01.03	NV-002AB				
40		MC-ISIL-2554-03.00	NV-002C				
41		MC-ISIL-2554-03.01	NV-002D				
42		MC-ISIL-2561-01.00	NV-011A				
43		MC-ISIL-2562-01.00	NV-019B				
44		MC-ISIL-2562-03.00	NV-019C				
45			NV-019D				
46			NV-019E				
47			NV-019AA				
48			NV-019AB				
49			NV-019AD				
50			NV-020AA				
51			NV-020AB				
52			NV-020AD				
53			NV-020AE				
54			NV-021A	,			
55			NV-021B				
56			NV026				
57			NV027				
58			NV-028				
_			hlv / 000				
59			NV-029				
60			NV-080A				
61			NV-080B				
62			NV-084A				
63			NV-084B				
64			NV-084C				
65			NV-108A				
66			NV-109				

There are (35) Class 2 (Category C-H) pressure test zones that require pressure testing once each Inspection Period. Table 6-4 shows a completion status of the (35) Class 2 (Category C-H) pressure tests zones that require pressure testing for the Third Period of the Third Ten Year Interval. There was no through-wall leakage observed during these pressure tests.

	Table 6-4 Detailed Class 2 Third Period Listing							
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Cases Used			
1	2BB-040L-B	MC-ISIL-2580-01.00	Complete	4/23/2014	None			
2	2BB-074L-B	MC-ISIL-2572-03.00	Complete	4/23/2014	None			
		MC-ISIL-2580-01.00						
		MC-ISIL-2584-01.00						
3	2CA-040L-B	MC-ISIL-2592-01.00	Complete	4/23/2014	None			
4	2CA-043L-B	MC-ISIL-2584-01.00	Complete	4/23/2014	None			
		MC-ISIL-2591-01.01						
		MC-ISIL-2592-01.00						
		MC-ISIL-2617-01.00						
5	2FW-007L-B	MC-ISIL-2554-03.00	Complete	10/26/2012	None			
		MC-ISIL-2554-03.01			ļ			
		MC-ISIL-2561-01.00						
		MC-ISIL-2562-03.00	1					
		MC-ISIL-2563-01.00			1			
6	010 0041 4	MC-ISIL-2571-01.00	0	4/00/0044	N 500 0			
0	2NC-001L-A	MC-ISIL-2553-01.00	Complete	4/23/2014	N-566-2			
		MC-ISIL-2553-02.00						
		MC-ISIL-2554-01.00			;			
		MC-ISIL-2554-01.01						
7	2ND-009L-B	MC-ISIL-2554-01.02	Complete	10/26/2012	N-566-2			
		MC-ISIL-2561-01.00						
		MC-ISIL-2562-03.00						
		MC-ISIL-2562-03.01						
		MC-ISIL-2563-01.00						
		MC-ISIL-2571-01.00						
		MC-ISIL-2572-01.00						
8	2ND-010L-B	MC-ISIL-2561-01.00	Complete	10/26/2012	N-566-2			
		MC-ISIL-2562-03.01						
		MC-ISIL-2563-01.00						
9	2NI-012L-B	MC-ISIL-2562-02.00	Complete	10/25/2012	None			
		MC-ISIL-2572-01.01						
10	2NI-013L-B	MC-ISIL-2562-02.01	Complete	10/25/2012	N-566-2			
		MC-ISIL-2572-01.01						
11	2NI-014L-B	MC-ISIL-2562-02.01	Complete	10/22/2012	None			
40		MC-ISIL-2562-03.00		0.00				
12	2NI-015L-B	MC-ISIL-2562-03.00	Complete	3/25/2014	None			

_	Table 6-4 Detailed Class 2 Third Period Listing (continued)						
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Cases Used		
13	2NI-016L-B	MC-ISIL-2562-03.00	Complete	6/25/2014	None		
14	2NI-017L-B	MC-ISIL-2562-03.00	Complete	5/24/2012	None		
		MC-ISIL-2562-03.01	•				
15	2NI-018L-B	MC-ISIL-2562-03.01	Complete	3/25/2014	None		
16	2NI-060L-B	MC-ISIL-2562-03.00	Complete	3/25/2014	None		
17	2NI-061L-B	MC-ISIL-2562-01.00	Complete	3/28/2014	None		
18	2NI-062L-B	MC-ISIL-2562-01.00	Complete	3/28/2014	None		
19	2NM-026L-B	MC-ISIL-2572-01.01	Complete	4/23/2014	None		
20	2NM-027L-B	MC-ISIL-2572-03.00	Complete	4/23/2014	None		
21	2NS-019L-B	MC-ISIL-2563-01.00	Complete	8/23/2012	None		
22	2NS-020L-B	MC-ISIL-2563-01.00	Complete	7/12/2012	N-566-2		
23	2NV-003L-B	MC-ISIL-2554-01.00	Complete	5/21/2014	None		
		MC-ISIL-2554-01.01					
		MC-ISIL-2554-01.02					
		MC-ISIL-2554-01.03			_		
24	2NV-004L-B	MC-ISIL-1554-05.00	Complete	4/24/2014	None		
		MC-ISIL-2554-01.00			-		
		MC-ISIL-2554-01.01	j				
		MC-ISIL-2554-01.02					
		MC-ISIL-2554-02.00	ı				
		MC-ISIL-2554-02.01			1		
		MC-ISIL-2554-03.00					
		MC-ISIL-2554-03.01					
		MC-ISIL-2561-01.00 MC-ISIL-2562-01.00					
		MC-ISIL-2562-03.00					
25	2NV-005L-B	MC-ISIL-2554-01.02	Complete	4/23/2014	N-566-2		
26	2NV-006L-B	MC-ISIL-2554-03.00	Complete	11/23/2012	None		
27	2NV-008L-B	MC-ISIL-2554-01.02	Complete	4/19/2014	None		
28	2NV-011L-B	MC-ISIL-2554-03.01	Complete	6/19/2013	None		
29	2RN-044L-B	MC-ISIL-2574-04.00	Complete	4/18/2014	None		
30	2RV-048L-B	MC-ISIL-2604-03.00	Complete	6/05/2013	None		
31	2SA-047L-B	MC-ISIL-2593-01.02	Complete	10/17/2013	None		
32	2SM-040L-B	MC-ISIL-2591-01.01	Complete	4/23/2014	None		
<u> </u>	2011. 0.02. 5	MC-ISIL-2593-01.00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110110		
		MC-ISIL-2593-01.03					
33	2SM-045L-B	MC-ISIL-2593-01.00	Complete	5/07/2012	None		
		MC-ISIL-2593-01.02					
ļ		MC-ISIL-2593-01.03					
34	2SM-046L-B	MC-ISIL-2593-01.00	Complete	5/07/2012	None		
	-	MC-ISIL-2593-01.03	•				
35	2YA-063L-B	MC-ISIL-2617-01.00	Complete	8/28/2013	None		