ENCLOSURE 1

Form OAR-1 Owners Activity Report (CC N-532-4)
Oconee Unit 1, Refueling Outage EOC 28.

FORM OAR-1 OWNER'S ACTIVITY REPORT						
Report Number Owner's Activity Report for Refueling Outage 1EOC28						
Plant Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29872						
Unit No. 1 Commercial service date 7/15/1973 Refuelling outage no. 1EOC28						
Current Inspection Interval 5th for Class 1, 2, & 3 Components & Supports and 3rd for Class MC Containment (1st, 2nd, 3rd, 4th, other)						
Current inspection period 1st for Class 1, 2, & 3 Components & Supports and Class MC Containment						
Edition and Addenda of Section XI applicable to the inspection plans 2007 Edition through the 2008 Addenda						
Date and revision of Inspection plans See Attachment A						
Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the Inspection plans Same						
Code Cases used: The following Code Cases are permitted by the ISI Plans: N-513-3, N-592-4, N-586-1, N-613-1, N-639, N-643-2, N-648-1, N-663, N-706-1, N-712, N-722-1, N-729-1, N-731, N-735, N-770-1						
CERTIFICATE OF CONFORMANCE I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of 1EOC28 conform to the requirements of Section XI. [returning outage number] **TO THE BEST OF MAY YOUR AND BELLY, Signed MARYA-PINS MARYANIS Date 2/23/2015						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of South Carolina, and employed by HSB Global Standards of CT have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evalvation described in this 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 his inspection. ** Commissions 13048, 201, ANIC, IS National Board, State, Province, and Endorsements ** National Board, State, Province, and Endorsements						

** PIP 0-14-8106 & 0-15-01841

OAR-1/ONS 1EOC28
Page 1 of 4

Date 2/25/2015

Attachment A

Oconee Unit 1 End of Cycle 28 Inservice Inspection Report

Date and Revision of Inspection Plans:

- 1. The following documents comprise the Oconee Nuclear Station 5th Interval Inservice NDE Inspection Plan for Unit 1 (Class 1, 2, and 3 Components):
 - a. Oconee Nuclear Station Fifth Interval Inservice Inspection Plan General Requirements Units 1, 2 and 3, Document #OISI-0169.10-0050-GEN REQ, Rev 0, dated 06/18/2014, including the following addenda:
 - i. OISI-0169.10-0050-5ONS-001
 - b. Oconee Nuclear Station Unit 1- Fifth Interval Inservice Inspection NDE Plan, Document #OISI-0169.10-0050-GEN REQ, Rev 0, dated 06/18/2014, including the following addenda:
 - i. OISI-0169.10-0050-5ONS-001through OISI-0169.10-0050-5ONS1-007
- 2. The following documents comprise the Oconee Nuclear Station 5th Interval Inservice Inspection Pressure Test Plan for Unit 1:
 - a. Oconee Nuclear Station Fifth Inspection Interval Inservice Inspection PT (Pressure Test) Plan General Requirements Units 1, 2 and 3, Document #OISI-0169.20-0050-GEN REQ, Rev 0, dated 06/18/2014, including the following addenda:
 - i. None
- 3. The following documents comprise the Oconee Nuclear Station 3rd Interval Containment Inservice Inspection Plan for Unit 1 (Class MC):
 - a. Oconee Nuclear Station Third Inspection Interval Containment Inservice Inspection Plan- Document # O-ISIC3-62-0001- General Requirements Parts A,B,C &D UNIT 1, 2 AND 3, dated 06/10/2014, including the following addenda:
 - i. None

Oconee Nuclear Unit 1 Form OAR-1 Owner's Activity Report

Table 1
Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service

Examination Category and Item Number	Item Description	Evaluation Description
C-H / C7.10	Boric acid residue found on valve 1HP-24 (Zone Number IZ1L-10)	Area identified in PIP 0-14-11712 was evaluated by Engineering and found to be acceptable for continued service.
C-H / C7.10	Boric acid residue found on 1B LPI Cooler (Zone Number OZ1L-27B)	Area identified in PIP O-14-13369 was evaluated by Engineering and found to be acceptable for continued service.
C-H / C7.10	Boric acid residue found on valves 1LWD- 331, 1LWD-332, 1LWD-274, 1LP-32, 1LP-69, (Zones Numbers OZ1L-21, 26, 27B, 28, 29, 29A, 30, and 30A)	Areas identified in PIP 0-14-13370 were evaluated by Engineering and found to be acceptable for continued service.
B-G-2 / B7.20	Indication found during VT-1bolting exam on O1.B7,20.0002/1PZR-CHB-STUDS	Indications identified in PIP O-14- 12461 were evaluated by Engineering and found to be acceptable for continued service.
B-G-2 / B7.20	Indication found during VT-1bolting exam on O1.B7.20.0003/1PZR-LHB-STUDS	Indications identified in PIP O-14- 12461 were evaluated by Engineering and found to be acceptable for continued service.
B-J / B9.22	Indication found during Augmented exam on Weld 1HP-255-18	Indication identified in PIP O-14- 12816 was evaluated in SIA Calculation 1401383.301 by Engineering and found to be acceptable for continued service.

Oconee Nuclear Unit 1 Form OAR-1 Owner's Activity Report

Table 2 Abstract of Repair/Replacement Activities Required For Continued Service

Code Class	Item Description	Description of Work	Date Completed	Repair / Replacement Plan Number
1	1A RC Cold Leg Drain Elbow	Replaced elbow and piping to first tee due to defect in elbow	11/22/2014	Work Order # 02180529
3	LPSW MDEFWP Motor piping	Replace piping containing through wall flaws between 36 inch header, LPSW-30 and LPSW-970	11/18/2014	Work Order # 02170612

Inservice inspection Report additional Attachments 1 and 2:

Submittal of the NIS-2 Forms Omitted from 1EOC26 and 1EOC27 Refueling Outage Summary Report Submittals for the previous interval (4th).

Attachment 1

The attached NIS-2 reports detail the repair/replacement of Class 1, and 2 piping and components for Duke Energy's, Oconee Unit 1. These repairs or replacements were performed in previous outage reporting periods (for 1EOC26 or 1EOC27) of the 4th Interval but were not included with that summary report because they were not completed in time.

Piping and components were inspected/tested in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel code "Rules for Inservice Inspection of Nuclear Power Components, "1998 Edition through 2000 Addenda.

NIS 2 List for 1 EOC26

Work Order #	Class
Class 1	
1967097	1

NIS 2 List for 1EOC27

Work Order #	Class
Class 1	
1967095-01,-72,-77	1
2044362	1
2067651	1
1933508	1
1941367	1
1944526	1
1993858	1
1993861	1
1998143	1
2008448	1
2008450	1
2023650	1
2024624-09	1
2053656	1
2068558-01	1
2125481-24	1
2126379-01	1
Class 2	
1995106-01,-04	2
1995107-01,-02,-25	2
2021674	2
2023452-10	2
2023453-10	2
2024297-17	2

NIS 2 List for 1EOC27 (continued)

2024316-33	2 .
2023405	2
2024222-02,-06	2
2053109-02,-09,-10	2
1893881	2
1978062-06	2
1978144-19	2
1978808	2
1983165-10	2
2023454-10	2
2024026	2
2088428-01	2
2092752-01	2

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI

, , ,	Work Order Number	Sheet
	01967097	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
1 Letdown Cooler removed from the 1B location, S/N 53755-1, was constructed summer 1980 addenda.	ed to ASME Section III, Class 3,	1980 edition,
New Letdown Cooler S/N N32389-1 installed in the 1B position. The Duke UTC # 0001896120. This cooler was constructed to ASME Section III, Class: attached and includes 2 sheets, Form N-2, associated with the 2 chemical conne it as part of manufacturing.	3, 1989 edition, no addenda. Fo	orm N-1 (4 pages) is
Piping and fittings: 3" SS pipe, CID 391686; 3" SS elbow, CID 391685; 3" 295258; 2" SS pipe, CID 380266; 1" SS pipe, CID 149460; 1" SS half coupling	SS elbow, CID 873346; 2-1/2" 5 , CID 68517; 1" SS elbow, CID	SS pipe, CID 80492.
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CERTIFICATE OF COMPLIA I certify that the statements made in the report are correct and that I ASME Code, Section XI.		ents of the
Type Code Symbol Stamp Not A	pplicable	Made v of colored to
Certificate of Authorization Number Not Applicable	Expiration Date Not A	Applicable
Signed Aames H Sattan , engineer Qwner's Designee, Title	Date 5/17/20	11
CERTIFICATE OF INSERVICE INS		
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of South CAROLD of Hartford, Connecticut		HSB CT
in this Owner's Report during the period to the best of my knowledge and belief, the Owner has performed	to 4.18.13	, and state that
described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employe	of the ASME Code, Section X	l.
concerning the examinations and corrective measures described in	this Owner's Report. Furth	ermore, neither the
Inspector nor his employer shall be liable in any manner for any persistent arising from for connected with this inspection.	sonal injury or property dama	ge or a loss of any
Commissions /	National Board, State, Province, s	IT IS
Date 4/18/13 MARK E. ZURBUG	CH	

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 01967097 1 of 2 Unit 2. Plant 1. Owner ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 5/16/2011 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class High Pressure Injection system (Letdown Cooler 1B - designed as Class 3), ASME Class 1 (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition, No Addenda, None Code Case (b) Applicable Edition Section XI Utilized For R/R Activity Edition, 2000 Addenda. 98 19 (c) Applicable Section XI Code Case(s) None 6. Identification of Components ASME Other Name of Name of Manufacturer National Year Corrected, Manufacturer Serial Number Board No. Identification Built Removed. Code Component or installed Stamped (Yes / No) Graham 1B Letdown 1985 Removed YES Manufacturing 53755-1 14352 None Cooler - old (1) Corp. Energy Steel & 3B Letdown N32389-1 None None 2006 Installed YES Supply Co. Cooler - new (2) **Duke Energy** None None None 2011 Installed NO Piping 7. Description of Work Removed the entire 1B Letdown Cooler, S/N 53755-1, and replaced it with a new Letdown Cooler (S/N N32389-1) of same basic design. Sections of 3", 2-1/2", 2" and 1" dia HPI piping & fittings were replaced for radiation ALARA reasons. Note: The Letdown Cooler tube side was originally designed as ASME Section III, Class 3. 8. Test Conducted

Nominal Operating Pressure

PSI

Exempt

Test Temperature

Other

°F

Hydrostatic

Pnenmatic

Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1967095-01, -72, -77 1 of 2 1. Owner Unit 2. Plant ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 6/27/2011 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 Expiration Date Not Applicable 4. Identification of System, ASME Class High Pressure Injection (HPI), ASME Class 1 5. **USAS B31.7** (a) Applicable Construction Code: Edition. No Addenda, Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 98 Edition. 2000 Addenda. (c) Applicable Section XI Code Case(s) N/A 6. Identification of Components Manufacturer National Other ASME Name of Name of Year Corrected, Serial Number Board No. Identification 3 Component Manufacturer Built Removed. Code or installed **Stamped** (Yes / No) 1HPIHX000A 18792-1 23288 QA Tag 73261 1995. Graham Mfg. Removed YES 1HPIHX000A 0 98207-1 21524 None 1996 Installed Graham Mfg. YES Support DEC None None None 2011 Corrected NO (Anchor) @ Piping DEC 2011 Corrected NO None None None 7. Description of Work EC105527 Replace the 1A Letdown Cooler and modify the HPI and CC piping to connect cooler. 8. Test Conducted Hydrostatic Nominal Operating Pressure Exempt Pneumatic Test Temperature Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2. 1967095-01 9. Remarks (Applicable Manufacturer's Data Reports to be attached) O Cooler Support pad enlarged using 1" Thk. Plate, UTC# 1963586 Anchor lengthened using 7/8" Dia. Round Bar, UTC# 979528 0 0 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 Not Applicable Expiration Date Certificate of Authorization Number Not Applicable Not Applicable K.W. Rannou Sr. Engineer Date 7/11/2011 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SouTH CAROLINA and employed by have inspected the components described Hartford, Connecticut in this Owner's Report during the period in this Owner's Report during the period $3 \cdot 3/.//$ to $4 \cdot /8 \cdot /3$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures , and state that described in this Owner's Report in ascordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 13048 MARK E. ZURBUCH

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI

is required by are pro-	AIRIOUR OF THE WOLATE	, Code Goein	JII AI		Work Order Num	ber	Sheet				
					02044	1362	1 of	2			
1. Owner		<u> </u>	2. Pla	ent			Unit				
	rgy Carolinas, LL	С			clear Station		ON	ONS - 1			
	Church Street NC 28201-1006			7800 Rochester Hwy Seneca, SC 29672							
				believa, oc		181	11/6	/2012			
3. Work Performed	l by				Type Code Symi	Type Code Symbol Stamp Not Applicable					
	rgy Carolinas, LL	.C			Authorization Nu						
526 South Church Street Charlotte, NC 28201-1006					Expiration Date	Not Ap	plicable				
					expiration Date	Not Ap	plicable				
4. Identification of	System, ASME CI										
		Reacto	or Cool	ant System, ASI	ME Class I						
5.(a) Applicable Cons	struction Code:	USAS B	31.7	19 69	Edition, No	Addend	la, (Code Case			
(b) Applicable Edition			ctivity	19 98	Edition, 2000	Addeno	la.				
(c) Applicable Section of)									
Name of	Name of	Manufac	turer	National	l Other	l Year	Corrected.	ASME			
Component	Manufacturer	Serial Nu		Board No.	identification	Built	Removed, or installed	Code Stamped			
							OI MISLANEG	(Yes / No)			
1RC-162	Target Rock	503 & 504		UKN	303280-2	UKN	Installed	МО			
1RC-162	Target Rock	516,526,	& 529	UKN	204855-2	UKN	Installed	МО			
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7. Description of											
Replaced Bonnet	assembly and ma	in disc pile	ot assei	nbly.							
8. Test Conduct		·—			54			······································			
L Hydros				Operating Pressur		Other					
1	Pressure	P	SI	Test Tea	geralare	o.t.					

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02044362 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) O CID# 492150, UTC# 1986273 Bonnet Assembly, Data Package attached © CID# 492154, UTC#1905493 Main Disc and Pilot, Data Package attached 0 0 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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Robert Bell / Senior Tech Specialist Date
Owner or Owner's Designee, Title 11/6/2012 **CERTIFICATE OF INSERVICE INSPECTION** t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ______ and employed by _____ have inspected the components described Hartford, Connecticut in this Owner's Report during the period to to the best of my knowledge and bellef, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02067651 1 of 2 1. Owner 2. Plant Unit ONS - I **Duke Energy Carolinas, LLC** Oconee Nuclear Station 7800 Rochester Hwy 526 South Church Street Date Charlotte, NC 28201-1006 Seneca, SC 29672 11/19/2012 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006: **Expiration Date** Not Applicable 4. Identification of System, ASME Class ·2: Reactor Coolant System (Pressurizer), ASME Class 1 (a) Applicable Construction Code: **USAS B31.7** 19 No Addenda, No 🔗 Code Case (b) Applicable Edition Section XI Utilized For R/R Activity Edition. 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer National Corrected. ASME Name of Name of Other Year Manufacturer Serial Number identification Removed, Component Board No. Built Code or installed Stamped (Yes / No) DE Item No. 92BUH 2895 UKN IRC-2 Flowserve Installed NO 09J-2043 2012 Pipe **Duke Energy** None None . None Installed NO IRC-2 Flowserve 92AWZ 1321 UNK Removed NO None 7. Description of Work Replaced Valve and Pipe 8. Test Conducted Nominal Operating Pressure Exempt Other Preumatic Test Temperature

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI

as required by the provisions of the ASME COU	o oddion / L	Work Order Num	ber :	Sheet
		020676	51	2 of 2
9. Remarks (Applicable Manufacturer's Date	a Reports to be attached)		<u> </u>	
A contract a management of		P. I. A. I. I.		
OCID# 529511, UTC#2003265 Complete \	Valve, Globe Bellows Scaled, Dat	a Pack Attached		
● CID# 149458, UTC#1996521, Pipe. 1/2 "	, SS, ASME SA 376 TP304, SCI	1 160 ANSI B36.10		
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	CERTIFICATE OF COMPLIA	NCE		
I certify that the statements made in ASME Code, Section XI.	the report are correct and that	this conforms to th	e requirement	ts of the
Type Code Symbol Stamp	Not A	Applicable		
Certificate of Authorization Number	Not Applicable	Expiration Date _	Not Ap	plicable
Signed12df	Aaron Best / Engineer	Date	2/14/2013	
Owner or Owner's Design	nee, Title			
	PERTURNATE OF MORRISON IN	PECTON		
I, the undersigned, holding a valid co	CERTIFICATE OF INSERVICE INST Commission issued by the Nation		and Pressure	Vessel
Inspectors and the State or Province of	SOUTH CARDINIA	and employed by	HS	B CT
of Hartford, C		 / .:	<u> </u>	nents described
in this Owner's Report during the period to the best of my knowledge and beli		to 4.//.Z		, and state that
described in this Owner's Report in acco				coure incesures
By signing this certificate reither to	the Inspector nor his employe	er makes any wa	irranty, expres	ssed or implied,
concerning the examinations and corre	ective measures described in	this Owner's Repo	ort. Furtherm	nore, neither the
Inspector nor/his employer shall be liab	ile in any manner for any pers	sonal injury or prop	erty damage	or a loss of any
kind arising from on connected with this i	napaction.			
Musik	Commissions /3	048 701	ANT	TS
Inspector's Signature		National Board, State	e, Province, and	Endorsements
Date 4.11.2013	MARK E. ZURBUC	H		

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1933508 1 of 2 1. Owner 2. Plant Oconee Nuclear Station ONS - 1 Duke Energy Carolinas, LLC 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 1/9/2013 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Sampling Liquid, ASME Class 1 (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition. No Addenda. Code Case (b) Applicable Edition Section XI Utilized For R/R Activity Edition. 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components ASME Name of Manufacturer National . Other Year-Corrected. Name of Component Manufacturer Serial Number Board No. Identification Built Removed, Code or installed Stamped The state 1111111 (Yes / No) 1-64-479D-H6416 N/A N/A 1973 Corrected NO. DUKE N/A 7. Description of Work Replaced bolts and washers 8. Test Conducted Nominal Operating Pressure Exempt Hydrostatic Pneumatic Test Temperature Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1933508 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) Washer, hardened steel, circular, 1/2", ASTM F436, UTC: 0001984348, Trace: M HT#100880 Bolt, heavy hex, 1/2", carbon stl, ASME SA325, UTC: 0001991678. Trace:M HT#SA19164 Nut, heavy hex, 1/2", carbon stl, ASME SA194 Gr 2H, UTC: 0001987147. Trace:M HT#7223080 0 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 Not Applicable 5 Not Applicable **Expiration Date** Certificate of Authorization Number -, Engineer II Date /-9-12 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of Votto Wollie and employed by have inspected the components described Hartford, Connecticut 1/15/13 , and state that in this Owner's Report during the period 1/15/13 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NB8447 NC1169ABAI IS

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1941367 1 of 2 2. Plant 1. Owner ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Charlotte, NC 28201-1006 Seneca, SC 29672° 1/3/2013 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable: 4. Identification of System, ASME Class Reactor Coolant, ASME Class 1 (a) Applicable Construction Code: USAS B31.7 19 Edition. No Addenda, Code Case (b) Applicable Edition Section XI Utilized For R/R Activity Edition. 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National -Other Year ASME Corrected, Component Manufacturer Serial Number Board No. Identification Built : Removed. Code or installed Stamped: (Yes / No) 1-50-481A-H6328 DUKE N/A N/A N/A 1973 Corrected NO 7. Description of Work Added shims to S/R to ensure gap between pipe and angles is no more than 1/16" on either side. 8. Test Conducted Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Test Temperature

Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 1941367 9. Remarks (Applicable Manufacturer's Data Reports to be attached) 1/4" thk x 8" wd, carbon stl, ASTM A36, hot rolled 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 Not Applicable Not Applicable **Expiration Date** Certificate of Authorization Number Not Applicable Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South Carolina and employed by HSB CT have inspected the components described Hartford, Connecticut 5.21.13 in this Owner's Report during the period 10-24-17 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or estimated with this inspection. Commissions ector's Signature MARK E. ZURBUCH

As required by the pro	ovisions of the ASMi	E Code Section	n XI	•							
						Work Order Nun	iber	Sh	eet		
						1944	526	ı	1 o	f 2	
1. Owner			2. Pla	ant				Un	it		
Duke Еле	ergy Carolinas, LI	.c		Oconee Nu	cle	ar Station			10	NS - 1	
	Church Street			7800 Roch	este	ester Hwy Date					
	, NC 28201-1006			Seneca, SC	29	29672 1/9/2013					
3. Work Performe	•					Type Code Symbol Stamp Not Applicable					
	ergy Carolinas, LI	LC				Authorization No					
	h Church Street	:					NOI A	plicable			
Charlotte, NC 28201-1006						Expiration Date	Not A	plicable			
4. Identification of	f System, ASME CI		mpling	g Liquid, ASME	Cla	ass I					
5.							A				
(a) Applicable Cons (b) Applicable Editi		USAS B		19 69		ition, No	_ Addend Addend			Code Case	
(c) Applicable Secti			Cuvity	19	Cui	2000	_ Audenic	10.			
6. Identification of		7									
Name of	Name of	Manufact	urar !	National	ı	Other	Year	Correc	ted	ASME	
Component	Manufacturer	Serial Nu		Board No.		Identification	Built	Remov or Insta	/ed,	Code Stamped (Yes / No)	
1-64-479E-H6531	DUKE	N/A		N/A		N/A	1973	Согтес	ted	NO	
			!								
			_						<u></u>		
											
7. Description of	Vork				<u></u>			L		L	
Replaced U-bolt											
8. Test Conducte Hydrost		tic No		perating Pressure Test Temp			Other				

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1944526 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) ● Bolt, bent, U, 1/4" dia., CARBON STL, UTC: 0001980618, Trace: M PN#137N 0 0 0 Ø 0 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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Signed C , Engineer II Date 1-9-13 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period $10 \cdot 17 \cdot 12$ to $10 \cdot 17 \cdot 12$ to $10 \cdot 17 \cdot 12$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate nether the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 13048 201 A N.T. T.S.
National Board, State, Province, and Endorsements Inspector's Signature MARK E. ZURBUCH Date 5.2.13

As required by the pro	ovisions of the ASMI	E Code Section XI		Work Order Nut	nhor	Sheet		
			* .	0199		1	of 2	
1. Owner	· · ·	2. Pl	lamé	0177	2020	Unit	1 2	
	Onellan II		of the second	-lana Canaina	. :		NS - 1	
	rgy Carolinas, LL Church Street		7800 Roche	clear Station	ار) مهای در ۲۰۰	Date	10 1 1	
	NC 28201-1006		Seneca, SC	•			0/2013	
3. Work Performed	d by			Type Code Symbol Stamp				
	•					pplicable		
	ergy Carolinas, LI h Church Street	LC :		Authorization N		pplicable	÷ (†	
	Expiration Date	NOL A	phiicanie	i				
Charlotte, NC 28201-1006 Expiration Date Not Applicable					pplicable	:' 		
4. Identification of	System, ASME CI					·	· · ·	
· · · · · · · · · · · · · · · · · · ·	يود والمحادث والمارية	High Pressu	re Injection, ASM	ME Class 1		. ·		
5. (a) Applicable Cons	struction Code	USAS B31.7		Edition, No	Addan	da, No	Code Case	
(b) Applicable Edition				Edition, 2000	Adden		2000 OB30	
(c) Applicable Secti	ion XI Code Case(s	None None						
6. Identification of	Components				· · · · · · ·		. 8:	
Name of	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed.	ASME	
Component	Manufacturer	Serial Number	Board No.		Bunt	or installed	Stamped	
			λ.	, the state of the state of the		٠٠٠	(Yes / No)	
1HP-334	Unk	Unk	Unk	Unk a	Unk	Removed	NO	
1HP-334	Flowserve	88BSZ	2797	UTC#1987258	Unk	Installed	YES	
1) Piping	DEC	None	None	None	2012	Installed	NO	
					:.	:		
		*						
			·*		4.			
			 				 	
			1					
		22 B						
	. : :		· .		·			
						:		
7. Description of	l Work		<u> </u>		<u> </u>	<u> </u>	<u> </u>	
EC102632 - Repli	•	ve 1HP-334 With	h A l in, Globe V	alve			,	
	· · · · · · · · · · · · · · · · · · ·	-, - -		# I			원 :	
8. Test Conducte	ıd						· · · · · · · · · · · · · · · · · · ·	
Hydrost	atic Pneumat	ic Nominal (Operating Pressure	⊠ Exempt ☐	Other	:	<i>i</i> .	
	Pressure	PS1	Test Temp		°F _			

As required by the provisions of the ASME Code Section XI Work Order Number 01993858 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • Installed piping 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. Not Applicable Type Code Symbol Stamp Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Signed David Hubbard / Technical Specialist II Date 01/10/2013 Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Sound Carolina and employed by HSB CT have inspected the components described Hartford, Connecticut to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate nativer the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from ar ton sected with this inspection. National Board, State, Province, and Endersements MARK E. ZURBUCH

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 01993861 1.of 2 Unit 1. Owner 2. Plant ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 7/30/2013 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant system, ASME Class 1 5. (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition. No Addenda. No Code Case 98 Edition, 2000 (b) Applicable Edition Section XI Utilized For R/R Activity 19 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer Name of Name of National Other Year Corrected, ASME Serial Number Identification Component Manufacturer Board No. Built Removed. Code or Installed Stamped (Yes / No) 1RC-VA-184 YY5-13 Unk Kerotest 23815 1978 Removed YES 1RC-VA-184" Flowserve 45BRG 2697 UTC 1971607 2010 Installed YES Piping **DPCo** None None 2012 Installed NOS None

			81		::		
7. Description of V EC103135, Replace		, Vent Valve 1	RC-184			12	
8. Test Conducted Hydrosts				ure Exempt	Other oF		.5%
	a de la companya de						

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 01993861 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) 8 0 A CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp Not Applicable Certificate of Authorization Number ... Not Applicable Expiration Date Not Applicable Rick Burgess, Sr. Technical Specialist 7/30/2013 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CAROLLA and employed by HSB CT Hartford, Connecticut have inspected the components described. in this Owner's Report during the period 10/11/12 to 9/17/13, and state that to the best of my knewledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in adjoindance with the requirements of the ASME Code, Section XI. By signing this cartificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or corrected with this irrspection.

MARK E. ZURBUCH

Commissions (3049)

As required by the pro	visions of the ASM	E Code Section XI	•	· ·	·······		
				Work Order Nun		Sheet	
				1998	1143		f 2
1. Owner		2. F	lant			Unit	
	ergy Carolinas, LL	.c	Oconee Nuc	clear Station		01	VS - 1
•	Church Street	•	7800 Roche	-		Date	
Charlotte	, NC 28201-1006		Seneca, SC	29672		12/3	3/2012
3. Work Performe	•			Type Code Sym		pplicable	
	ergy Carolinas, LI	LC		Authorization N		11 11	
	h Church Street , NC 28201-1006	•			Not A	pplicable	
Charlotte	, NC 28201-100C			Expiration Date	Not A	pplicable	
4. Identification of	System, ASME CI	ass					
			ure Injection, ASM	1E Class I			
5. (a) Applicable Cons (b) Applicable Editi (c) Applicable Sect	on Section XI Utilize	-		Edition, No	_ Addeno		Code Case
6. Identification of	Components						
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or installed	ASME Code Stamped (Yes / No)
1HP-545	Flowserve	34BRG	2703	None	UNK	Removed	YES
1HP-545	Flowserve	33BGC	1663	UTC#-1820914	2006	installed	YES
1HP-546	Flowserve	31BRG	2700	None	UNK	Removed	YES
1HP-546	Flowserve	83BSZ	2792	UTC#-1987253	UNK	Installed	YES
Piping	DECo	None	None	None	2012	Installed	NO
7. Description of	Work	<u> </u>	<u></u>		<u> </u>		
EC107442 replac	ed 1/2" vent valve	s 1HP-545 and	I HP-546 and the a	ssociated piping v	vith 1" va	alves and pipin	g.
8. Test Conducto	,	tic Nominal	Operating Pressure Test Temp	Exempt [Other °F		

		• • • •		Work O	rder Numbe	r	Sheet	
•	.,;;			<u> </u>	1998143		2 of	2
Remarks (Applicable Ma	anufacturer's Data	Reports to be attach	ed)					
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•			Not A	policable	Net ek		elining.	
ype Code Symbol Stam	np	Not Applicab			•	Not	Annlicahl	
ype Code Symbol Stam	on Number	Not Applicab	le	Expiration	n Date		Applicabl	
ype Code Symbol Stam ertificate of Authorization	on Number	Not Applicab	le	Expiration	n Date			
ype Code Symbol Stam ertificate of Authorization	on Number Rick Bu	Not Applicab	le	Expiration	n Date			
ype Code Symbol Stamerificate of Authorization	on Number Rick Bu or Owner's Design	Not Applicab	Specialist	Expiration	n Date _			
ertificate of Authorization igned Rich Bun Owner	on Number Rick Bu or Owner's Design	Not Applicab rgess, Sr. Technical see, Title ERTIFICATE OF IN	Specialist SERVICE INS	Expiration Date SPECTION all Board	n Date	12/3/20	012 ure Vesse	e
ype Code Symbol Stam ertificate of Authorization igned Rick Bun Owner I, the undersigned, he aspectors and the State	on Number Rick Bu or Owner's Design colding a valid color Province of	Not Applicab rgess, Sr. Technical see, Title ERTIFICATE OF IN ammission issued to	Specialist SERVICE INS	Expiration Date SPECTION hal Board and emp	n Date I of Boiler a loyed by	12/3/20	oure Vesse HSB CT	e
ertificate of Authorization igned Rick Burn Owner I, the undersigned, he ispectors and the State	on Number Rick Bu or Owner's Design olding a valid co or Province of Hartford, C	Not Applicab rgess, Sr. Technical see, Title ERTIFICATE OF IN ammission issued to	Specialist SERVICE INS by the Nation	Expiration Date SPECTION hal Board and emp	n Date	12/3/20	oure Vesse HSB CT	e e
ertificate of Authorization igned Rick Burn Owner I, the undersigned, he respectors and the State for this Owner's Report do	on Number Rick But or Owner's Design colding a valid colding	Not Applicab rgess, Sr. Technical nee, Title ERTIFICATE OF IN Demmission issued to Connecticut	Specialist SERVICE INS by the Nation	Expiration Date SPECTION nal Board and emp hav to 9	of Boiler a loyed by e inspecte	12/3/20 nd Press	oure Vesse HSB CT nponents o	e describer
iype Code Symbol Stam Certificate of Authorization Signed Rick Burn Owner I, the undersigned, he respectors and the State of the best of my known	on Number Rick But of Owner's Design Colding a valid colding	Not Applicab rgess, Sr. Technical nee, Title ERTIFICATE OF IN commission issued to connecticut Lef, the Owner ha	Specialist SERVICE INS by the Nation ALO JULA IS performed	Expiration Date SPECTION nal Board and emp have to	of Boiler a loyed by e inspecte	12/3/20 nd Press	oure Vesse HSB CT nponents o	e describer
I, the undersigned, he nepectors and the State of this Owner's Report do the best of my knowlescribed in this Owner's By signing this cert	on Number Rick But or Owner's Design colding a valid colding	Not Applicab rgess, Sr. Technical rec, Title ERTIFICATE OF IN rommission issued to connecticut ref, the Owner had rdance with the reche Inspector nor	Specialist SERVICE INS by the Nation ALO INA IS performed equirements of his employed.	Date SPECTION all Board and emp have to Section d examination the ASection er makes	of Boiler a loyed by e inspecte ations and ME Code, s any war	12/3/20 Ind Press I taken of Section >	oure Vesse HSB CT Inponents of and corrective (I.	describer state that measure or implie
Certificate of Authorization Certificate of Authorization Signed Ruck Burn Owner I, the undersigned, he inspectors and the State of in this Owner's Report during the best of my known described in this Owner's By signing this certiconcerning the examina	on Number Rick But or Owner's Design colding a valid colding a valid colding a valid colding the period viedge and belies Report in according and corrections and corrections and corrections and corrections and corrections.	Not Applicabe rgess, Sr. Technical ree, Title ERTIFICATE OF IN commission issued to connecticut Tef, the Owner hardance with the rection in the inspector nor rective measures details.	Specialist SERVICE INS by the Nation ALO INA Is performed a pure ments of this employed escribed in	Date SPECTION all Board and emp have to Second the ASecond the ASecond the ASecond this Own	of Boiler a loyed by e inspecte ations and ME Code, s any war, ner's Repo	12/3/20 Itaken of Section > ranty, ext. Furth	oure Vesse HSB CT Inponents of and corrective (I.	describer state that measure or implie
Certificate of Authorization Signed Rich Burn Owner I, the undersigned, he inspectors and the State of in this Owner's Report duties to the best of my knowledge of the	on Number Rick But or Owner's Design olding a valid coor Province of Hartford, Curing the period viedge and belies Report in according and corrected the street of the str	Not Applicable rgess, Sr. Technical rec, Title ERTIFICATE OF IN termission issued to technical recticut ief, the Owner hardance with the recticut rective measures due in any manner	Specialist SERVICE INS by the Nation ALO INA Is performed a pure ments of this employed escribed in	Date SPECTION all Board and emp have to Second the ASecond the ASecond the ASecond this Own	of Boiler a loyed by e inspecte ations and ME Code, s any war, ner's Repo	12/3/20 Itaken of Section > ranty, ext. Furth	oure Vesse HSB CT Inponents of and corrective (I.	describer state that measure or implie
I, the undersigned, he inspectors and the State of in this Owner's Report duto the best of my know described in this Owner's	on Number Rick But or Owner's Design olding a valid coor Province of Hartford, Curing the period viedge and belies Report in according and corrected the street of the str	Not Applicable rgess, Sr. Technical rec, Title ERTIFICATE OF IN termission issued to technical recticut ief, the Owner hardance with the recticut rective measures due in any manner	Specialist SERVICE INS by the Nation ALO INA Is performed a pure ments of this employed escribed in	Date SPECTION all Board and emp have to Second the ASecond the ASecond the ASecond this Own	of Boiler a loyed by e inspecte ations and ME Code, s any war, ner's Repo	12/3/20 Itaken of Section > ranty, ext. Furth	oure Vesse HSB CT Inponents of and corrective (I.	describer state that measure or implie
Certificate of Authorization Signed Ruck Burn Owner I, the undersigned, he inspectors and the State of in this Owner's Report duty to the best of my know described in this Owner's By signing this cert concerning the examinatinspector nor his/employkind arising from of armin	on Number Rick But or Owner's Design of Province of Hartford, Curing the period viedge and being Report in according and correspond of the period vietge and being and correspond of the period vietge and being and correspond of the period vietge and correspond of the period vietge and correspond of the period vietge of the	Not Applicab rgess, Sr. Technical nec, Title ERTIFICATE OF IN mmission issued to meeticut onnecticut ef, the Owner fla rdance with the re the Inspector nor active measures de in any manner respection.	Specialist SERVICE INS by the Nation ALO INA Is performed a pure ments of this employed escribed in	SPECTION hal Board and emp have to Soft the AS er makes this Ownsonal injurish	of Boiler a loyed by e inspecte ations and ME Code, any warner's Repory or proper	nd Press d the con l taken of Section > ranty, ex rt. Furtherty dama	ure Vesse HSB CT nponents of the corrective (I. pressed of the corrective age or a lease of the corrective (I. pressed of the corrective of the correction o	describer state that measure or implies their tross of an
I, the undersigned, he nspectors and the State of this Owner's Report do to the best of my know described in this Owner's By signing this cert concerning the examinating from of the property of the concerning the examinating from of the property of the concerning the examinating from of the concerning the concerning the examinating from of the concerning the	on Number Rick But or Owner's Design olding a valid coor Province of Hartford, Curing the period viedge and belies Report in according and corrected the street of the str	Not Applicab rgess, Sr. Technical nec, Title ERTIFICATE OF IN mmission issued to meeticut onnecticut ef, the Owner fla rdance with the re the Inspector nor active measures de in any manner respection.	SERVICE INS by the Nation AEO INA consistency of the Service of the Nation AEO INA consistency of the Service of the Service of the Nation AEO INA consistency of the Nation AEO	BPECTION had Board and emp have to Sort the AS er maker this Owr sonal injure National	of Boiler a loyed by e inspecte ations and ME Code, s any war, ner's Repo	nd Press d the con l taken of Section > ranty, ex rt. Furtherty dama	ure Vesse HSB CT nponents of the corrective (I. pressed of the corrective age or a lease of the corrective (I. pressed of the corrective of the correction o	describer state that measure or implies their tross of an

Form NIS-2 Owner's Report for Repair/Replacement Activity
As required by the provisions of the ASME Code Section XI

		020		8448	10	1 of 2	
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006			Oconee Nu 7800 Roche Seneca, SC		ear Station		
Work Performed				Type Code Sym		plicable	/2013
	rgy Carolinas, LL Church Street	. C		Authorization N	umber	plicable	:: .
Charlotte,	NC 28201-1006	Santara da		Expiration Date		plicable	
identification of	System, ASME Cl		ant System, ASM	ME Class 1			la e :
	on Section XI Utilize on XI Code Case(s	=		Edition, No Edition, 2000	Addend Addend		Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME: Code Stamped (Yes / No
RCPU0004	Sulzer	UNK	UNK	UNK	UNK	Removed	NO
1) IRCPU0001	Flowserve	UNK	UNK	UNK	2012	Installed	NO:
		·					÷ .
	a. 1 (4)	in the second				agi ak	.:
					∯		
	·		·		·		
						. 869	1.1
	, ;			es ji.	1. 14.		
7. Description of EC106786, Repli replaced the "1 A	aced."1A1" and "!	IB2" reactor cool	ant pump seals w	ith Flowserve N-9	0000 seals	s. WO#020084	148
8. Test Conduct	ed .						

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02008448 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) 10 The seal contains the following components: UTC # 0002005500, Flowserve mechanical seal, UTC # 0001979515, Flowserve housing, upper RCP seal, and UTC # 0002007410, Flowserve washer, lock, seal cartridge 0 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 Not Applicable Certificate of Authorization Number **Expiration Date** Not Applicable Not Applicable Rick Burgess, Sr. Technical Specialist 8/1 2013 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 Prassure Vessel Inspectors and the State or Province of South CAROLINA and employed by HSB CT Hartford, Connecticut have inspected the components described in this Owner's Report during the period in this Owner's Report during the period 3/14/2012 to 2/10/2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures , and state that described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this cartificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and correctly emeasures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be lable in any manner for any personal injury or property damage of a loss of any kind arising from or congential with this inspection. MARK E. ZURBUCH

s required by the pro	visions of the Adivir	Code Section At	3	Work Order Nur	nber	Sheet	
				0200	8450 :	1 0	of 2
Duke Energy Carolinas, LLC 526 South Church Street			Oconee Nuclear Station 7800 Rochester Hwy			Unit ONS - 1 Date	
Charlotte,	NC 28201-1006	e Bana	Seneca, SC	29672		. 8/1	/2013
3. Work Performed				Type Code Sym	Not A	pplicable	
526 South	ergy Carolinas, LI Church Street			Authorization N	Not A	pplicable	:
	, NC 28201-1006			Expiration Date		oplicable	·
4. Identification of	System, ASME CI		ant System, ASM	ME Class 1			
5.(a) Applicable Cons(b) Applicable Edition(c) Applicable Section	on Section XI Utilize ion XI Code Case(s	-		Edition, No 2000	Addend Addend		Code Case
6. Identification of Name of Component	Components Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or installed	ASME Code Stamped (Yes / No)
1RCPU0004	Sulzer	UNK	UNK	UNK	UNK	Removed	NO
1RCPU0004	Flowserve	UNK	UNK	UNK	2012	Installed	NO
						:-	
	·					:	
						·	
	:				·		
7. Description of EC106786, Replaced the "1B2	iced "1A1" and "1	B2" reactor cools	nt pump seals wi	th Flowserve N-9	000 seals	. WO#200845	50
8. Test Conduct			Derating Pressure Test Temp	Exempt [Other °F		

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet · 02008450 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • The seal contains the following components: UTC # 0001976170, Flowserve mechanical seal, UTC # 0001979516, Flowserve housing, upper RCP seal, and UTC # 0002007410, Flowserve washer, lock, seal cartridge. CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Rick Burgess, Sr. Technical Specialist Date 8/1/2013 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Sourch CAROLUM and employed by HSB CT have inspected the components described Hartford, Connecticut in this Owner's Report during the period 3/14/12 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,

concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from acconnected with this inspection.

Commissions

Commissions

Commissions

Commissions

National Board, State, Province, and Endorsements

Date

MARK E. ZURBUCH

As required by the provisions of the ASME Code Section XI as Work Order Number Sheet 化三磺胺 化氯化甲基二甲 2023650 1 of 2 2. Plant Unit 1. Owner ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 7800 Rochester Hwy 526 South Church Street Date Seneca, SC 29672 Charlotte, NC 28201-1006 1/9/2013 Type Code Symbol Stamp 3. Work Performed by Not Applicable 136 × 12 Duke Energy Carolinas, LLC Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Sampling Liquid, ASME Class 1 5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition · No Addenda, Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Manufacturer National Other Year Corrected. ASME: Name of Identification Code Serial Number Board No. Built Component Manufacturer Removed, or Installed Stamped (Yes / No) 1-64-479D-H6347 DUKE N/A 1973 Corrected N/A N/A NO :ţ: 7. Description of Work Replaced bolts, washers and nuts 8. Test Conducted Hydrostatic Nominal Operating Pressure Exempt Pneumatic Test Temperature Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 2023650 9. Remarks (Applicable Manufacturer's Data Reports to be attached) Bolt, heavy hex, 1/2", carbon stl, ASTM A325, UTC: 0001977955, Trace: M HT#A03284 Washer, hardened stl, circular, 1/2", carbon stl, ASTM F436, UTC: 0001984348, Trace: M HT#100880 ● Bolt, heavy hex, 1/2", carbon stl, ASME SA325, UTC: 0001979435, Trace: M HT#1 D3358 • Nut, heavy hex, 1/2", carbon stl, ASME SA194 Gr 2H, UTC: 0001987147, Trace: M HT#7223080 8 0 0 0 ◍ 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. Not Applicable Type Code Symbol Stamp Certificate of Authorization Number Not Applicable Expiration Date Not Applicable , Engineer II Date 1-9-13 Signed Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South CAROLINA and employed by HSB CT have inspected the components described Hartford, Connecticut in this Owner's Report during the period , and state that to 5.2.13 11.6.12 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code. Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall/be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions /3048, ZOI A. V. T. T.S.
National Board, State, Province, and Endorsements inspector's Signature MARK E. ZURBUCH Date 5:2.13

As required by the provisions of the ASME Code Section XI Work Order Number 3 of 4 2024624-09 2. Plant 1. Owner ONS - 1 Oconee Nuclear Station Duke Energy Carolinas, LLC 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 1/3/2013 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant System, ASME Class 1 (a) Applicable Construction Code: **USAS B31.7** Edition. No Addenda. No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 98 Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components ASME Name of Name of Manufacturer **National** Other Year Corrected. Code Board No. Component Manufacturer Serial Number Identification Built Removed. Stamped or installed (Yes./No) III-TE-1643 LROICD-5082 2005 Removed Framatome N/A None NO (06)1II-TE-1643 Framatome LRQICD-5197 N/A UTC 1994929 UNK Installed NO (O6)1II-TE-1639 2005 LRQICD-5083 N/A None Removed NO Framatome (L3)III-TE-1639 LROICD-5198 UTC 1994929 UNK Installed Framatome N/A NO (L3) Framatome None N/A UNK Removed NO Nut Ring x 12 None UTC 1994926 UNK Installed N/A NO. Nut Ring x 12 Framatome None

As required by the provisions of the ASME Code Section XI		
	Work Order Number	Sheet
	2024624-09	4 of 4
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		······································
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@PIP 0-13-367 - 0-13-00082	-	
CERTIFICATE OF COMPLIA		
I certify that the statements made in the report are correct and that ASME Code, Section XI.	this conforms to the require	ments of the
Type Code Symbol Stamp Not A	Applicable	
Certificate of Authorization Number Not Applicable	Expiration Date No	t Applicable
Signed Aaron Best, Engineer	Date 1/3/2	013
Owner or Owner's Designee, Title		413
	PROTICAL	
CERTIFICATE OF INSERVICE INS		nura Venael
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of Authorization	and employed by	HSB CT
of Hartford, Connecticut	have inspected the co	
in this Owner's Report during the period 1/24/13	to 1/24/13	, and state that
to the best of my knowledge and belief, the Owner has performed		
described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employ.		
concerning the examinations and corrective measures described in		
Inspector nor his employer shall be liable in any manner for any pers		
kind arising from or connected with this inspection.		
A my Chital State Commissions N/	88447 NC1169 A	BNIIS
Inspector's Signature	National Board, State, Province	
Date 1/24/13		

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02053656 1 of 2 1. Owner 2. Plant Unit ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 12-4-2012 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant, ASME Class I 5. (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition, No Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity Edition, 2000 19 98 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National Other Year Corrected, ASME Component Manufacturer Serial Number Board No. Identification Built Removed. Code or installed Stamped (Yes / No) 1RC-IV-0162 Kerotest Unk Unk Unk Unk Removed NO 1RC-IV-0162 Flowserve 53BPJ 2497 UTC 1945254 Installed Unk YES **Piping DPCo** Unk Unk Unk 2012 Installed NO

		100				
7. Description of EC108749 replace	Work ed IRC-IV-0162 a	ifter previous onl	ine leak injection	n repair.		
8. Test Conduct		ic 🛭 Nominal (Danielina Duccesson		Other	
nyurus		PSI	Test Temp			
				(

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02053656 2 of 2 9. Remarks (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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Mechanical Engineer Date 12/4/2012 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Couline and employed by HSB CT Hartford, Connecticut have inspected the components described , and state that 1/14/13 in this Owner's Report during the period to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures: described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions AB8447 NC 1169 ABAT IS National Board, State, Province, and Endorsements Date

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2068558-01 1 of 2 Unit 2. Plant Owner ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 2/13/2013 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant, ASME Class 1 5. (a) Applicable Construction Code: USAS B31.7 19 69 Edition. No Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Other Name of Manufacturer National Year Corrected, Name of ASME Manufacturer Serial Number Board No. Identification Removed. Component Built Code or installed Stamped (Yes / No) ON I CRD CM Diamond Power UNK UNK See Remarks (1) UNK Corrected YES 0K09 7. Description of Work Replace Core Location K09 CRDM tube hold down bolting with new 8. Test Conducted Pneumatic Nominal Operating Pressure Exempt Other Test Temperature Pressure _

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 2068558-01 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • (8) CRDM tube hold down bolts, 1 1/8", SA453 Gr 660 Class A, UTC# 1977937 (2) Split nut ring flanges (1 set), SA320 LA3, UTC# 1075364 4:1 a P.D. 0-13-01700 NEVSICIO 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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Signed Aaron Best, Engineer Date 2/13/2013 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the State or Province of South Calound and employed by Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5.2.13 to , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI... By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied. concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 13048, 201, A. N. I. T. S. National Board, State, Province, and Endorsements MARK E. ZURBUCH

s required by the pro	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Work Order Nu	mber	Sheet	······································
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526 South	rgy Carolinas, LL 1 Church Street NC 28201-1006	Oconee Nuc 7800 Roches Seneca, SC	ster Hwy				
, Work Performe	d by			Type Code Syn	nbol Stamp Not App		
526 South	ergy Carolinas, LI th Church Street		i.	Authorization N	Not Ap	plicable	
Charlotte	, NC 28201-1006	443		Expiration Date	Not Ap	plicable	
•	System, ASME CI	High Pressu	re Injection, ASM				
	on Section XI Litilize Ion XI Code Case(s			dition, No 2000	Addenda Addenda		Code Cas
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or installed	ASME Code Stampe (Yes / No
HP-489	Anchor Darling	EZ 496-1-11;	1960	See Remarks	1996	Corrected	YES
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A.\$	741			-21 - 31	:	15 × 19	
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	int nuts were repl	aced with like fro	om stock.				
l. Test Conducte Hydrosi		le Nominal	Operating Pressure Test Tempe	Exempt [Other		

As required by the provisions of the ASME Code Section At	Work Order Number Sheet
	02125481-24 2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)	
Nuts, Heavy Hex, 7/8", 9UNC-2B, Carbon Steel ASME SA194 Gr 2F	l, UTC#0002018022 (gty 7)
Nuts, Heavy Hex, 7/8", 9UNC-2B, Carbon Steel ASME SA194 Gr 2H	, UTC# 0002018512 (qty 1)
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CERTIFICATE OF COM	
I certify that the statements made in the report are correct and ASME Code, Section XI.	mac this conforms to the requirements of the
Type Code Symbol Stamp	Not Applicable
Certificate of Authorization Number Not Applicable	
Signed Will Beekman, Engineer	II Date 11/25/2013
Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVIC	— ··· · · · · · · · · · · · · · · · · ·
i, the undersigned, holding a valid commission issued by the N Inspectors and the State or Province of مراكبة المراكبة	and employed by HSB CT
of Hartford, Connecticut In this Owner's Report during the period //. 21. 251.3	to have inspected the components described
to the best of my knowledge and belief, the Owner has perfo	rmed examinations and taken corrective measure
described in this Owner's Report in accordance with the requirement By signing this certificate neither the Inspector nor his em	ints of the ASME Code, Section XI. Iployer makes any warranty, expressed or implie
concerning the examinations and corrective measures describe inspector nor his employer shall be liable in any manner for any	d in this Owner's Report. Furthermore, neither the
kind arising from or connected with this inspection.	personne injury se property camage of a 1005 of al
Commissions	13048 ZDI, A. M. I, C, TS. National Board, State, Province and Endorsements
MARK E. ZURE	National Board, State, Province, and Endorsements
Date 4/3/14	

b) Applicable Edition Section XI Utilized For R/R Activity c) Applicable Section XI Code Cese(s) None Name of Components Name of Manufacturer Serial No. Board No. None None None Name of Component Manufacturer Serial No. None	s required by the prov				Work Order Num 21263		Sheet 1 o	of 2
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class High Pressure Injection, ASME Class 1 Applicable Construction Code: Applicable Edition Section XI Utilized For R/R Activity Applicable Section XI Code Case(s) None I dentification of Componente Name of Component Name of Manufacturer Serial No. B2 HPI Injection Noze UNK Corrected, No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No Noze INK Corrected No No Noze INK Corrected No No Noze INK Corrected No	Duke Ener 526 South	Church Street	.c	Oconee Nuc 7800 Roche	ester Hwy		ON Date	r ragi
S26 South Church Street Charlotte, NC 28201-1006 I. Identification of System, ASME Class High Pressure Injection, ASME Class 1 I. a) Applicable Construction Code: USAS B31.7 1969 Edition, No Addenda, No Code Case 1 I. a) Applicable Edition Section XI Utilized For RIR Activity 1998 Edition, No Addenda. I. Identification of Components Name of Component Manufacturer Serial No. IB2 HPI Injection No. IB2 HPI Injection DECo N/A N/A None UNK Corrected, No None Nozzel Safe End T. Description of Work	40 40 4		** · · · · · · · · · · · · · · · · · ·			Not App	plicable	
Applicable Construction Code: USAS B31.7 1969 Edition, No Addenda, No Code Case 1 a) Applicable Edition Section XI Utilized For R/R Activity 1998 Edition, 2000 Addenda Components Name of Component Manufacturer Sorial No. Board No. Identification Built Removed, or Installed Stamp (Yes / No.) B2 HPI Injection DECO N/A N/A None UNK Corrected NO. NO. Code Case Case (S) None None UNK Corrected NO. NO. Code Case (S) None None UNK Corrected NO. NO. Code Case (S) None None UNK Corrected NO.	526 South	a Church Street		a 7			plicable	
High Pressure Injection, ASME Class I Applicable Construction Code: USAS B31.7 1969 Edition, No Addenda, No Code Ca: Applicable Edition Section XI Utilized For R/R Activity 1998 Edition, 2000 Addenda. Applicable Section XI Code Case(s) None Identification of Components Name of Component Manufacturer Serial No. Board No. Description of Injection Cozzel Safe End DECo N/A N/A None UNK Corrected NO Description of Work	·		i i i		Expiration Date	Not Ap	plicable	
) Applicable Construction Code: USAS B31.7 1969 Edition, No Addenda, No Code Castillon (Section XI Utilized For R/R Activity 1998 Edition, 2000 Addenda.) Applicable Section XI Code Case(s) None Identification of Components Name of Component Manufacturer Serial No. Board No. Code Castillon (Section XI Code Casti	. ,	System, Auric, C.		re Injection, ASM	IE Class 1	á.		
Name of Component Manufacturer Serial No. Board No. Identification Built Removed, or installed Stamp (Yea / Instal) Applicable Consi) Applicable Editio) Applicable Section	on Section XI Utilize ion XI Code Cese(s)	d For R/R Activity				-	Code Cas
Description of Work	Name of	Name of		***************************************		1 1	Removed,	ASME Code Stampe (Yes / N
Description of Work		DECo	N/A	N/A	None	UNK	Corrected -	NO
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Test Conducted	erformed weld b	ouild up on 182 H	PI Injection safe	end and machine	d to design dimen	sions per l	EC111894	

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 2126379-01 9. Remarks (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 Not Applicable Not Applicable Certificate of Authorization Number Expiration Date Not Applicable Signed Aaron Best, Senior Engineer Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** i, the understaned, holding a valid commission issued by the National Board of Boiler and Pressura Vessel Inspectors and the State or Province of South CAPOLUA and employed by HSB Global Standards have inspected the components described Hartford, Connecticut In this Owner's Report during the period 11-19-13 2-11-15 to to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any enected with this inspection. kind arising from o Commissions MARK E. ZURBUCH

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required by the pro-	, a \tau		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Work Order Nun		Sheet	2
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. Owner		2. Pl	ant		. :5	Unit	
	rgy Carolinas, LL	C		clear Station	w.		NS - 1
and the second s	Church Street		7800 Roche	7	,	Date	- W
Charlotte,	NC 28201-1006		Seneca, SC	29672		11/8 gr. 14/8	8/2012
. Work Performed				Type Code Sym		plicable	
	rgy Carolinas, LI Church Street	JC .	San	Authorization N		plicable	<i>i</i> ;
	NC: 28201-1006		3	Expiration Date	Mor Wi	pheavio	
				Expiration, Date	Not Ap	plicable	
. Identification of							
	W - 4" dia piping	g to 1C Reactor E	Building Cooling	Unit (RBCU) Co	is, ASM	E Class 2	:
a) Applicable Cons	truction Code:	USAS B31.1	# 19 67	Station, No a		la,No 🕟	
a) Applicable Consb) Applicable Edition				Edition, 2000	_ Addend		Dode Cas
) Applicable Secti		•	-				
. Identification of	Components	e in the same at	- Articles		ديود الا		- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Name of	Name of	Manufacturer	National	Other	Year	Corrected,	ASM
Component	Manufacturer	Serial Number	Board No.	Identification	Built	Removed, or installed:	Stamp
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olting - for coils ,2, 3 & 4 (1)	Duke	Unknown	None	See Remarks	2012	Installed	, NO
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orrective work o	n the 1C RBCU (Coils # 1, #2, #3	& #4 (tube cleani	ng) required remo	oval of the	e cooler water	
nvolved disassem	bling the Low Pr	essure Servcie (L	.PSW) piping from	n the coils. The	5/8-inch (
olting material fo		langes required r	eplacement due to	surface degradat	ion.		
I MARIET A CONCINCTO	u		•				
Hydrost	atic Pneuma		Operating Pressure	Exempt	Other	. :	9 9%

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					995106-01,	-04	Sheet 2 of	2 -
9. Remarks (Applicable Manufactu	ırer's Data Rep	orts to be atta	ched)			. Jr		
Replaced one hundred twenty-ei #1, #2, #3 and #4 Coils' flanges. The stud material (threaded rod) is 297-	he Catalog ID	# for the nuts	is 293556 ar	ty-four (64) nd the UTC	5/8-inch diame # is 00019978	eter studs (80. The C	on the IC atalog ID	RBCU, # for the
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DPP 0-13-367	·	**		<u> </u>		· · · · · · · · · · · · · · · · · · ·		; ·
I certify that the statements	made in the i	report are co	rrect and th	at this conf	orms to the re	equireme	nts of the	
·			No	ot Applicabl	e		, .	
Type Code Symbol Stamp	nber	Not Applica		ot Applicabl Expiration		Not A	policable	· :·
Type Code Symbol Stamp Certificate of Authorization Num	Batton			et Applicabl Expiration Date		Not A	pplicable	
Type Code Symbol Stamp Certificate of Authorization Num Signed	CERT a valid comm	Sr. Er	ble ngineer NSERVICE	Expiration Date INSPECTION Lional Board	on Date 11/8/2 Note: The second of Boiler and	0/2 I Pressur		
I, the undersigned, holding a	cer's Designee, 1 cer's Designee, 1 a valid common vince of None reford, Conne e period and belief, rt in accordar neither the and correctivall be liable in	TFICATE OF I issign issued the Country is included the Country is included the Country is included the Country inc	NSERVICE Liby the National Performance of the empty described	INSPECTION INSPECTION Inspectional Board and emp have to ned examire ts of the AS loyer make in this Own	on Date 11/8/2 of Boiler and oloyed by re inspected to real real real real real real real real	Pressur Hithe composition XI. Inty, expression Further	e Vessel SB CT onents de and si rective in essed or more, ne	escribed ate tha neasure implie

As required by the pro	ovisions of the Abivit	: Code Section At	to gradu	Work Order Nu	mber	Sheet	·
	•	the second		01995107	-01, -02, -2	.5 1.o	f 2
1. Owner		2. F	Plant			Unit	57 × 11
Duke Ene	ergy Carolinas, LL	.c · · ··········	Oconee N	uclear Station	1 A	ON	NS - 1
	h Church Street			nester Hwy		Date	
:	, NC 28201-1006		Seneca, So		· ·	11/9	0/2012
3. Work Performe	d by	\$ 28 ·		Type Code Syr	nbol Stamp Not App	olicable	
the state of the s	ergy Carolinas, LI	c		Authorization I	Vumber		
	h Church Street , NC 28201-1006				Not App	licable	<u> </u>
Ç (1111 10110		' :		Expiration Date	e Not App	olicable	.ş
	f System, ASME CI		Dudista Occiden	II. a ADCID C	-12 Agyar	2.010	35 .
5.	SW - 4" dia piping	to IA Reactor	Building Cooling	Unit (RBCU) Co	oiis , Asivie	Class 2	<u></u>
(a) Applicable Con	struction Code:	USAS B31.1	19 67	Edition, No	Addenda	, No (Code Case
	on Section XI Utilize		19 98	Edition, 2000	Addenda	Ly graph	
6. Identification of	ion XI Code Case(s	None None					
Name of	Name of	Manufacturer	National	Other	Year	Corrected,	ASME
Component	Manufacturer	Serial Number	Board No.	Identification	Built	Removed, or Installed	Code Stamped
	*	1 - 1 - 4 - 2 - 2	Stanton as			W. A. P. W. S.	(Yes / No)
1A RBCU Coil bolting - for coils	Duke	Unknown	None	See Remarks	2012	To at all a d	, NO
1,2,3 & 4 (1)	Duke	Officions	None	See Remarks	2012	Installed	NO
i, ii		w en e					
					1 3/1-2/1		- S.
				d Agentin			*
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7. Description of	Work						
Corrective work	on the 1A RBCU (Coils # 1, #2, #3	& #4 (tube clean	ing) required rem	oval of the	cooler waterb	ox. This
involved disassen LPSW piping bold	abling the Low Pro	essure Servcie (l	LPSW) piping fro	om the coils. The	5/8-inch &	3/4-inch diar	neter
8. Test Conducte	ed	iping to con na	ingo required top	accinent due to si	arrace degra		
Hydrost			Operating Pressure		Other _		sd.
	Pressure	PSI	Test Tem	perature	•k		

	Work Order Number	Sheet						
	01995107-01, -02, -25	2 of 2						
9. Remarks (Applicable Manufacturer's Data Reports to be attached)								
Replaced one hundred twenty-eight (128) 5/8-inch diameter nuts and sixty-four (64) 5/8-inch diameter studs on the 1A RBCU, #1, #2, #3 and #4 Coils' flanges. The Catalog ID # for the nuts is 293556 and the UTC #'s are 0001997880, 0001979149, 0001977583. The Catalog ID # for the stud material (threaded rod) is 297412 and the UTC #'s are 0001996044, 0002000449.								
Replaced 3/4-inch diameter nuts (SA194 Gr 2H) and studs (SA193 B7 threaded rod) on the 1A RBCU LPSW piping flanges. - 3/4-inch 10-UNC-2B nut, Cat ID # 131796, UTC # 001984733.* - 3/4-inch 10 UNC-2A stud from threaded rod, Cat ID # 297413, UTC # 0001995162. *								
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· PIP- 13-367								
CERTIFICATE OF COMPLIA	ICE							
I certify that the statements made in the report are correct and that t ASME Code, Section XI.		nts of the						
Type Code Symbol Stamp Not A	pplicable							
Certificate of Authorization Number Not Applicable	Expiration Date Not A	pplicable						
Signed Agmes H Batton Sr. Engineer I gwner or Owner's Designee, Tide	Date 11/9/2012							
CERTIFICATE OF INSERVICE INS	PECTION							
I, the undersigned, holding a valid commission issued by the National Inspectors and the State or Province of Month Auditor of Hartford, Connecticut	and employed by H have inspected the comp	SB CT onents described						
in this Owner's Report during the period 1/22/13 to the best of my knowledge and belief, the Owner has performed	0 1/23/13	_ , and state that						
described in this Owner's Report in accordance with the requirements o	examinations and taken con	Tective measures						
By signing this certificate neither the Inspector nor his employe concerning the examinations and corrective measures described in t	f the ASME Code, Section XI. r makes any warranty, expr	essed or implied,						
By signing this certificate neither the Inspector nor his employe	f the ASME Code, Section XI. r makes any warranty, expr his Owner's Report. Further	essed or implied, more, neither the						
By signing this certificate neither the Inspector nor his employer concerning the examinations and corrective measures described in the Inspector nor his employer shall be liable in any manner for any personal desiring from or connected with this inspection.	f the ASME Code, Section XI. r makes any warranty, expr his Owner's Report. Further	essed or implied, more, neither the e or a loss of any						

s required by the pro	visions of the Asimi	S Code Section XI			Work Order Num	ber		Sheet	
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. Owner		2. Pi	ant					Unit	<u> </u>
Duke Ene	rgy Carolinas, LL	.c · I had	Oconee Nu	ucle	ar Station			Ol	NS - 1"
	Church Street		7800 Roch	este	r Hwy			Date	
Charlotte,	NC 28201-1006		Seneca, SC	29	9672	: _	i.,·	11/2	9/2012
, Work Performed				~~	Type Code Sym	bol Stamp Not A		ole:	
	ergy Carolinas, Ll n Church Street	LC .			Authorization N	umber Not A	nnlical	ale .	
a to the galactic control of the con	, NC 28201-1006	j	1, 1		Expiration Date	Not A			
. Identification of	System, ASME C		re Injection, ASI	ME	Class 2				
c) Applicable Sect	on Section XI Utilize on XI Code Case(s	•	19 <u>69</u> 19 <u>98</u>		tion, No tion, 2000	_ Adden	_	No (Code Case
. Identification of	Components					:			Ŧ . :
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.]; j	Other dentification	Year Built	Re	rrected, moved, nstalled	ASME Code Stampe (Yes / No
LP-96	Kerotest	Unk	Unk		Unk	Unk	Re	moved	% NO
LP-96	Flowserve	18BUF	2878	ι	JTC#2001705	2012	In	stalled	YES
) Piping:	DEC	None	None		None	2012	In	stalled	NO.
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. Description of EC103120 - Repl	Work ace 2 in. Block V	alve 1LP-96 With	1 A 2 in. Globe	√alv	e ,				
. Test Conducte Hydrost		tic Nominal (Operating Pressure		Exempt	Other			
	Pressure	PSI	Test Tem			op		:	- c:

	Work Order Number	Sheet
	02021674	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)	. Landing of	
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I certify that the statements made in the report are correct and that ASME Code, Section XI.	this conforms to the require	ements of the
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Not Applicable	this conforms to the require pplicable Expiration Date N	
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Not Applicable Signed David L Hubbard, Technical Specialist II	this conforms to the require pplicable Expiration Date N	ot Applicable
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Not Applicable Signed David L Hubbard, Technical Specialist II Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE	this conforms to the require pplicable Expiration Date N Date 11/29	ot Applicable /2012
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Not Applicable Signed David L Hubbard, Technical Specialist II Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE	this conforms to the require pplicable Expiration Date No Note 11/29 PECTION all Board of Boiler and Presented Street Presented No Note 11/29	ot Applicable /2012 ssure Vessel
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Not Applicable Signed David L Hubbard, Technical Specialist II Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE	this conforms to the require pplicable Expiration Date No Note 11/29 PECTION all Board of Boiler and Presented employed by	ot Applicable /2012
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Not Applicable Signed Develope David L Hubbard, Technical Specialist II Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE I	Expiration Date No. Date 11/29 EPECTION all Board of Boiler and Presented employed by have inspected the co.	ot Applicable /2012 ssure Vessel HSB CT components described , and state that
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Signed David L Hubbard, Technical Specialist II Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSERV	Expiration Date No. Date 11/29 EPECTION all Board of Boiler and Presand employed by have inspected the co. 1 examinations and taken	ssure Vessel HSB CT components described and state that corrective measures
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I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Signed David L Hubbard, Technical Specialist II Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSERV	Expiration Date No. Date 11/29 EPECTION Pal Board of Boiler and Presand employed by have inspected the column of the ASME Code, Section for makes any warranty, of this Owner's Report. Full	ssure Vessel HSB CT components described and state that corrective measures XI. expressed or implied, thermore, neither the
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I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Signed Suppose David L Hubbard, Technical Specialist II. Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSERVI	Expiration Date No. Date 11/29 SPECTION all Board of Boiler and Presand employed by have inspected the color of the ASME Code, Section of the ASME Code, Section of the Source's Report. Fur onal injury or property dark	essure Vessel HSB CT components described and state that corrective measures axi. expressed or implied, thermore, neither the mage or a loss of any
I certify that the statements made in the report are correct and that ASME Code, Section XI. Type Code Symbol Stamp Not A Certificate of Authorization Number Signed Suppose David L Hubbard, Technical Specialist II. Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSERVI	Expiration Date No. Date 11/29 PECTION Date Board of Boiler and Presand employed by have inspected the color of the ASME Code, Section or makes any warranty, of this Owner's Report. Fur onal injury or property data. National Board, State, Province of the ASME Code, Section or makes any warranty, or this Owner's Report. Fur onal injury or property data.	ssure Vessel HSB CT components described and state that corrective measures XI. expressed or implied, thermore, neither the mage or a loss of any

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02023452-10 1 of 2 1. Owner 2. Plant Oconee Nuclear Station ONS - 1 Duke Energy Carolinas, LLC ála i 7800 Rochester Hwy 526 South Church Street Date «Charlotte, NC 28201-1006 Seneca, SC 29672 11/15/2012 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class LPSW - Piping to 1A2 RCP Motor Air Coolers (RCPMAC) Upper, ASME Class 2 (a). Applicable Construction Code: **USAS B31.1** 19 67 Edition, No Addenda, Code Case 98 2000 (b) Applicable Edition Section XI Utilized For R/R Activity 19 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Other Corrected, ASME Name of Name of Manufacturer **National** Year Board No. Identification Built Removed. Component Manufacturer Serial Number Code or Installed Stamped (Yes / No) 1A2 RCPMUAC Installed NO Duke Unknown None -None 2012 bolting (1) 7. Description of Work Work on the 1A2 RCP Motor Coolers (tube cleaning) required removal of the cooler waterbox and disassembling the Low Pressure Service (LPSW) piping from the coils. The 1/2-inch dia. waterbox bolting material required replacement due to surface degradation & maintenance convenience. 8. Test Conducted Nominal Operating Pressure Exempt Other Hydrostatic Pneumatic Pressure **PSI Test Temperature**

		:		Work Order Numb	· •	Sheet
		<u>, k</u>		02023452	10 · · · ·	2 of 2
. Remarks (Applicable Manufac	turer's Data Rep	orts to be attached)			## U. T	
Replaced RCP Motor Air Coo A194 Gr 2H, ANSI B18.2.2, AS Studs - cut from Rod, Threaded, JTC # - 0001935521	ME SA 194 Gr	2H, Duke Energy C	atalog ID 3	13135, UTC#000	1987147.	•
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igned I, the undersigned, holding aspectors and the State or Professional State of Hamber of Ha	mber CERT a valid commitorince of control connection and belief, to the land corrective all be liable in	Not Applicable Sr. engine itle FICATE OF INSERV ssion issued by the cticut 7-/7-/Z he Owner has pe ce with the require nspector nor his measures descri	Not Ap E PICE INSP e National ar to enformed of employer ibed in thi	plicable xpiration Date ate //OV / ECTION Board of Boiler and employed by have inspecte	Not A 5, 2012 and Pressure H d the compa taken cor Section XI. ranty, exprint. Further erty damage	e Vessel SB CT onents describe , and state the rective measuressed or implies
ASME Code, Section XI. Type Code Symbol Stamp Certificate of Authorization Nur Signed Owner or Own I, the undersigned, holding respectors and the State or Property of Hamber of the best of my knowledge described in this Owner's Report	mber CERTI a valid commit ovince of and belief, to ort in accordan finither the I and corrective all/be liable in with this inspe	Not Applicable Sr. engine itle FICATE OF INSERV ssion issued by the cticut 9-17-17 he Owner has pe ce with the require nspector nor his measures descri any manner for a ction.	Not Ap E E E VICE INSP e National ar to ements of employer ibed in thing persor	plicable xpiration Date ate //OV / ECTION Board of Boiler and employed by have inspecte	Not A 5, 2012 and Pressure H d the composition XI. ranty, experienty damage	e Vessel SB CT onents describe , and state that rective measuressed or implie more, neither to

As required by the provisions of the ASME Code Section XI Sheet 1 of 2 02023453-10 2. Plant 1. Owner Unit ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 11/15/2012 Type Code Symbol Stamp 3. Work Performed by Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class LPSW - Piping to 1A2 RCP Motor Air Coolers (RCPMAC) Lower, ASME Class 2 USAS B31.1 Addenda, (a) Applicable Construction Code: 67 Edition, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 98 Edition, 2000 Addenda. 19 (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer National Other Year Corrected, ASME Name of Name of Component Manufacturer Serial Number Board No. Identification Built Removed, Code or installed Stamped (Yes / No) 1A2 RCPMLAC 2012 Duke Unknown None None Installed NO bolting (1) 7. Description of Work Work on the 1A2 RCP Motor Coolers (tube cleaning) required removal of the cooler waterbox and disassembling the Low Pressure Service (LPSW) piping from the coils. The 1/2-inch dia, waterbox bolting material required replacement due to surface degradation & maintenance convenience. 8. Test Conducted Pneumatic Nominal Operating Pressure Exempt Other Hydrostatic Test Temperature Pressure

5		* *	Work Order Num	ber Sheet
:		1 1	0202345	3-10 2 of 2
9. Remarks (Applicable M	anufacturer's Data R	eports to be attached)	\$75.7% P	
SA194 Gr 2H, ANSI B18.2	2.2, ASME SA 194 C	ir 2H, Duke Energy Ca	talog ID 313135, UTC # 00	UNC-2B, Carbon Steel, ASME 01987147. rgy Catalog ID # 297411, UTC #
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ASME Code, Section XI.			nd that this conforms to the	e requirements of the
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ASME Code, Section XI. Type Code Symbol Starr Certificate of Authorization Signed Owner I, the undersigned, he respectors and the State of this Owner's Report due to the best of my knowner.	on Number or Owner's Designee, cer olding a valid commor Province of Hartford, Conturing the period wiedge and belief,	Not Applicable Sr. Engi Title	Not Applicable Expiration Date Date Not Applicable Expiration Date Nov. Not Applicable	Not Applicable 15 2012 and Pressure Vessel HSB CT ed the components described 13 and state that not taken corrective measure
ASME Code, Section XI. Type Code Symbol Starr Certificate of Authorization Signed I, the undersigned, he inspectors and the State of in this Owner's Report dute to the best of my known described in this Owner's By signing this cert concerning the examina	con Number con Number con Number con Owner's Designee, con Owner	Not Applicable Sr. Engi Title Titl	Not Applicable Expiration Date Date Not Applicable Expiration Date Nov. Nov. Not Applicable Expiration Date Nov. Nov	Not Applicable 15 2012 and Pressure Vessel HSB CT ed the components described 13 and state that not taken corrective measures

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1. Owner			2. Pl	ant		<u> </u>		7	Init		
Duke Ene	ergy Carolinas, LI	i.c	1	Oconee Nuc	cle	ar Station		1	Oì	NS-1	
	h Church Street	1		7800 Roche				ļ-,)ate		
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Duke Eng	ergy Carolinas, LI	ור						pircaure	:		
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4. Identification of	f System, ASME CI				المنساء				·		
		High I	Pressu	re Injection, ASM	Æ	Class 2					
5.		********							-		
(a) Applicable Cons		USAS B				tion, No	_ Addend		40 (Code Case	
	ion Section XI Utilize tion XI Code Case(s		-	19 98 1	Equ	tion, 2000	_ Addend	ia.			
6. Identification of)									
		ميرس مما			1		·				
Name of Component	Name of Manufacturer	Manufact Serial Nur		National Board No.		Other dentification	Year Built	Corrected, Removed.	ASME Code		
Component manufacturer	VOIM 11-	1106.	Contains.	identification		Duin	or installed		Stamped		
	l	1	[ı					(Yes / No)		
	Anvil				1	UTC 1966656		<u> </u>		 	
1-51-478E-H6080	International	None	·	UNK		ee Remarks (1)	UNK	Corre	ected	NO	
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7. Description of \	Work				_			<u> </u>			
Replaced existing		w nivot pin	to res	tore correct confi	iou	ration					
		A. Marier B.	** - **		'	1 4414					
8. Test Conducte	·d										
Rydrosti		fr Nor	ninal C	perating Pressure	F	Exempt _	Other				
	Pressure	PSI		-	-		ok _				
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As required by the provisions of the ASME Code Section XI		<u> </u>
	Work Order Number	Sheet
	2024297-17	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
Anvil 3/8" Pivot Pin UTC 1966656, HT # 71A used to replace existing loa	d stud	
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Certificate of Authorization Number Not Applicable	Expiration Date Not	Applicable
	Date 11/29/1	2
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE INS		
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of North Carolina	al Board of Boiler and Pressuand employed by	ire Vessel HSB CT
of Hartford, Connecticut	have inspected the com	
	to 1/16/13	, and state that
to the best of my knowledge and belief, the Owner has performed described in this Owner's Report in accordance with the requirements of		
By signing this certificate neither the Inspector nor his employe		
concerning the examinations and corrective measures described in		
Inspector nor his employer shall be liable in any manner for any perskind arising from or connected with this inspection.		
	aming house as	/ r
Inspector's Signature Commissions	National Board, State, Province, a	nd Endorsements
Date 1/16/2013		

1. Owner Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Type Code Symbol Stamp Not Applicable Authorization Number Not Applicable Expiration Date Not Applicable Expiration Date Not Applicable Feedwater, ASME Class 2	. -	e ASME Code Section		Work Order Nu		Sheet	
1. Owner Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Liven Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Lidentification of System, ASME Class Feedwater, ASME Class 2 5. (a) Applicable Construction Code: (b) Applicable Section XI Utilized For RIR Activity (c) Applicable Section XI Utilized For RIR Activity (c) Applicable Section XI Oct Case(s) None S. Identification of Components Name of Name of Manufacturer Manufacturer Manufacturer Serial Number Manufacturer Serial Number None None None O4A-0-478A- NPS-H35 Lisega 61296/35 UNK None UNK Removed Notation None UNK Removed Notation None UNK Removed Notation Notation Notation None UNK Removed Notation None UNK Removed Notation Notation Notation Notation None UNK Removed Notation Notation Notation None UNK Removed Notation Notation Notation None Notation Notation None Notation			* 3**	" t			
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Seneca, SC 29672 Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class Feedwater, ASME Class 2 Applicable Construction Code: USAS B31.I 19 67 Edition, No Addenda, No C D Applicable Edition Section XI Utilized For R/R Activity Applicable Section XI Code Case(s) None Name of Component Name of Component Manufacturer Serial Number Board No. Identification Wanted Fermoved, or Installed 4A-0-478A-IPS-H35 Lisega 30800150/035 UNK UTC 01916749 UNK Installed	•					i i i i i i i i i i i i i i i i i i i	
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As required by the provisions of the ASME Code Section XI		
	Work Order Number	Sheet
	2024316-33	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
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I certify that the statements made in the report are correct and the ASME Code, Section XI.	·	ments of the
Type Code Symbol Stamp No.	ot Applicable	
Certificate of Authorization Number Not Applicable	Expiration Date No	t Applicable
Signed Eric K. Smith / Engineer	Date 11/29/	2012
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE	INSPECTION	
I, the undersigned, holding a valid commission issued by the Na		cura Vassali
Inspectors and the State or Province of North Carolina	and employed by	HSB CT
of Hartford, Connecticut	have inspected the co	•
in this Owner's Report during the period 1/10/13	to 1/10/13	, and state that
to the best of my knowledge and belief, the Owner has perfort described in this Owner's Report in accordance with the requiremen		
By signing this certificate neither the Inspector nor his emp	loyer makes any warranty, e	xpressed or implied,
concerning the examinations and corrective measures described Inspector nor his employer shall be liable in any manner for any p		
kind arising from or connected with this inspection.		
	VB8447NL1169 AD	BAT TO
Inspector's Signature Commissions	National Board, State, Province	
Date 1/10/2013		

1. Owner Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Duke Energy Carolinas, LLC Seneca, SC 29672 Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Type Code Symbol Stamp Not Applicable Expiration Date Not Applicable Lidentification of System, ASME Class Feedwater, ASME Class 2	by the provision	of the ASME (Code Section XI		Work Order Nur	nber	Sheet	
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 3. Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 3. Identification of Systam, ASME Class Feedwater, ASME Class Feedwater, ASME Class Feedwater, ASME Class Feedwater, ASME Class Feedwater, ASME Class Capitable Edition Section XI Utilized For R/R Activity Co Applicable Section XI Code Case(s) None 3. Identification of Components Name of Components Name of Component Name of Manufacturer Serial Number Serial Number None None None None None None None None	·		i	1			10	of 2
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As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2023405 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • I" Turnbuckle, UTC #:0001051785, Trace: M PN#230N 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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Engineer II Date 11/12/12 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Sound CARDINA and employed by HSBCT have inspected the components described Hartford, Connecticut 2 · 7 · /Z to /Z · /9 · /3 , and state that in this Owner's Report during the period to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall/be liable in any manner for any personal injury or property damage or a loss of any kind arising from or compected with this inspection. Commissions /304B, 201 A N, L, LS
National Board, State, Province, and Endorsements MARK E. ZURBUCH Date 12.19.13

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI I of 2 02024222-02, -06 Unit 2. Plant 1. Owner ONS - 1 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 11/8/2012 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class LPSW - 4" dia piping to 1B Reactor Building Cooling Unit (RBCU) Coils, ASME Class 2 19 No (a) Applicable Construction Code: ** USAS B31.1 💹 67 Edition, Addenda,: No Code Case: (b) Applicable Edition Section XI Utilized For R/R Activity Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Other ASME Name of Name of Manufacturer **National** Year Corrected. Identification Component Manufacturer Serial Number Board No. Built Removed. Code or installed Stamped (Yes / No) 1B RBCU Coil bolting - for coils See Remarks 2012 Installed NO Duke Unknown None 1,2,3 & 4 (1) ugá. 1884 1.00 (X.) 7. Description of Work Preventative maintenance work on the 1B RBCU Coils # 1, #2, #3 & #4 (tube cleaning) required removal of the cooler waterbox. This involved disassembling the Low Pressure Servcie (LPSW) piping from the coils. The 5/8-inch diameter LPSW piping bolting material for piping-to-coil flanges required replacement due to surface degradation. 8. Test Conducted Exempt Nominal Operating Pressure Hydrostatic Pneumatic.

Test Temperature

							Order N 20242:	umber 22-02,	-06	She	eet 2 of	2
Remarks	(Applicable Ma	nufacturer's Data	Reports to b	e attached)		<u></u>					Ý.	
1, #2, #3 and	d #4 Coils' flan	venty-eight (128) iges. The Catalog) is 297412 and th	g ID # for the	nuts is 2935	556 and t							
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SME Code ype Code (e, Section XI.	P	Not Ap	е сопеста	Not A	this con	le 🤄		Not	nents (

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02053109-02, -09, -10 1 of 2 2. Plant Unit 1. Owner ONS - 1 Oconee Nuclear Station Duke Energy Carolinas, LLC 526 South Church Street 7800 Rochester Hwy Date Seneca SC 29672 Charlotte, NC 28201-1006 11/15/2012 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Unit 1A1 Reactor Coolant Pump Motor Upper Bearing Oil Cooler, LPSW System, ASME Class 2 (a) Applicable Construction Code: USAS B31.1 19 67 Edition. No Addenda. Code Case 2000 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National Other Year Corrected, **ASME** identification Removed. Code Manufacturer Serial Number Board No. Component Built or installed Stamped (Yes / No) 1A1 RCP Motor K-1058 UTC # 06G-041-1 UNK UNK Removed ... NO TEi 00020003227 Brg Oil Cooler 1A1 RCP Motor TEi UNK K-1058 6887-9 UNK Installed NO Brg Oil Cooler (2) IAI RCP Motor ota, e gigane Brg Oil Cooler to Duke None See Remarks 2012 Installed NO Unknown LPSW piping flange bolting (1) 3. 7. Description of Work This work includes preventative replacement of 1A1 RCP Motor Upper Bearing Oil Cooler and associated piping. bolting due to normal wear and tear and Maintenance convenience. 8. Test Conducted Hydrostatic Nominal Operating Pressure Exempt ___ Pneumatic Test Temperature Pressure

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			e diger	<u> </u>		° 02	053109-0	2, 09, 10	2	of 2	
Remarks (A	Applicable	Manufacturer's	Data Reports	to be attache	d)						
3556 and the placed 5/8-ii	UTC #'s	meter nuts on the is 0001997880 cut from Rod, #297412, UTC	Threaded, 5	/8", 11 UNC	•.			: 1		· H.	
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Replaced ex	cisting Oil	Cooler with use	d Oil Cooler	Catalog ID	588684, U	TC # 000	2003227.				
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I certify the SME Code, pe Code S	Section :		in the repo	rt are corre	·	t this co		ine requiren	nents o	f the	:
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gned(ner or Owner's D		<u>)r. Engii</u>	neer	Date	Nov. 1	5, 2012			

As required by the pro				Work Order Nun	ber	Sheet	
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1. Owner		2. PI	ant			Unit	
Duke Ene	rgy Carolinas, LI	c in the last	Oconee Nuc	lear Station		Ot	NS - 1
	Church Street		7800 Roches	•		Date	
Charlotte,	NC 28201-1006		Seneca, SC			⅓ 1/9.	/2012
3. Work Performed				Type Code Symi		pplicable	
	ergy Carolinas, Ll n Church Street	CC	•	Authorization N		plicable	
	, NC 28201-1006	j	98	Expiration Date		plicable	
4. Identification of	System, ASME C	a65					:
. i :	·.	Main Fe	edwater, ASME C	lass 2			
5. (a) Applicable Cons	struction Code	USAS B31.1	19 67 E	dition, No	Addend	ia, No (Code Case
(b) Applicable Edition	-			dition, 2000	Addend	·	
(c) Applicable Sect) <u>None</u>					
6. Identification of Name of		Manufacturer	I Mattagat I	Other	Year	Corrected	ASME
Component	Name of Manufacturer	Serial Number	National Board No.	Identification	Built	Corrected, Removed, or installed	Code Stamped (Yes / No)
S/R 03-0-479A- H9A	DUKE	N/A	. N/A	See Remarks	1973	Corrected	NO
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7. Description of	Work						. :
Replaced south ro	od assembly, item	s #2, #4, #5 and #	16	van	ii	\$ 15 minutes	
8. Test Conducte		. [].	Operating Pressure	⊠ Exempt	Other	14 15 15 441 4	

As required by the provisions of the ASME Code Section XI		
	Work Order Number	Sheet
	1893881	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
1" dia. round bar, carbon steel, ASTM A36, UTC 0001951530, Trace M H	[#JD6543	
1" clevis, forged stl, UTC 0000952686, Trace M P/N#299N		
1" turnbuckle, UTC 0000856616, Trace M TD4722		
1" heavy hex nuts carbon stl, ASME SA194 GR 2H, UTC 0001951881, Tra	ce AM HT#323217	
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OFFICIATE OF ACMOUNT	JOP.	
CERTIFICATE OF COMPLIANT I certify that the statements made in the report are correct and that the ASME Code, Section XI.	_	ents of the
Type Code Symbol Stamp Not A	pplicable	
Certificate of Authorization Number Not Applicable	Expiration Date Not A	pplicable
	Date 1/9/12	
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE INS		
I, the undersigned, holding a valid commission issued by the National Inspectors and the State or Province of		re Vessel ISB CT
of Hartford, Connecticut	have inspected the comp	
	12.19.2013	
to the best of my knowledge and belief, the Owner has performed	examinations and taken co	rrective measures
described in this Owner's Report in accordance with the requirements of By signing this certificate reither the inspector nor his employe	the ASME Code, Section XI.	peed or implicat
concerning the examinations and corrective measures described in t	i makes any warranty, expr his Owner's Report - Further	more neither the
Inspector nor his employer shall be liable in any manner for any person	onal injury or property damag	e or a loss of any
kind arising from or connected with this inspection.	•	·
Commissions /3	of 201 ANI	.73
Inspector's Signature	National Board. State, Province, an	d Endorsements
Date 12-19-2015 MARK E. ZUR	BUCH	

as required by the pro-	visions of the ASME	Code Section	on XI		ŗ	Work Order Num	ber	Sheet	
					١	197806			f 2
1. Owner			2. Pla	mt		177000	72-00	Unit	
	- 0 " FT	0	2. Pla		.1	04-41			NS - 1
	rgy Carolinas, LL Church Street	C	•	Oconce Nuc 7800 Roche					49 - 1
	NC 28201-1006			Seneca, SC		•		Date	
3. Work Performed				Scheoa, SC		Type Code Symb	ol Stamo	12/5	7/2012
	•						Not Ap	plicable	
	rgy Carolinas, LI Church Street	Æ			l	Authorization Nu		plicable	
	NC 28201-1006				-	Expiration Date	NOT AL	phicable	
On total						Expiration Date	Not A	pplicable	
4. Identification of	System, ASME CI		Main S	team, ASME CI	ass	2			
5.				_					
(a) Applicable Cons		USAS B			Edit		_ Addeno Addeno		Code Case
(b) Applicable Edition(c) Applicable Section				19 98	Edit	ion, <u>2000</u>	_ Addeno	18.	
6. Identification of		None					<u> </u>		
Name of		Manufac	I	National	1	Other	Year	Corrected.	ASME
Component	Name of Manufacturer	Serial Nu		Board No.	1	dentification	Built	Removed, or installed	Code Stamped (Yes / No)
Hanger Support 1-01A-0-550-R12	DEC ₀	UNK		UNK	Se	ee Remark (I)	UNK	Corrected	NO
!									
								·	
7. Description of Rebuilt pipe clam		ving to cu	t existin	ng bolts to inspec	ct pi	ipe clamp for w	vear.		
8. Test Conducto	-		ominal C SI	Derating Pressure Test Tem		Exempt [Other of		

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 1978062-06 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • Support Rebuild included: (10) heavy hex nut 2 1/2" ASTM 194 Grade 2H UTC#1970851 & (2') Round bar 2_1/2" ASTM A193 B7 UTC#1941115 & (24") threaded rod, 2 1/2" ASME 197 Grade B7 UTC#1971602 € 8 0 0 0 0 0 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 Not Applicable Expiration Date Not Applicable Certificate of Authorization Number Not Applicable Signed Eric K Smith / Engineer Date 12/5/2012 Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolinu and employed by HSB CT have inspected the components described Hartford, Connecticut ut 1/18/13 1/18/13 ___ , and state that in this Owner's Report during the period in this Owner's Report during the period 1/8/3 to 1/8/3, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any CRITICE Staghter Commissions NB 8447 NC1169 AB NI kind arising from or connected with this inspection. National Board, State, Province, and Endorsements

As required by the provisions of the ASME Code Section XI Work Order Number Sheet المراجع بتقهمات ووهي 1978144-19 3 of 4 Unit 2. Plant 1. Owner **ONS - 1** Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy. Seneca, SC 29672 Charlotte, NC 28201-1006 12/5/2012 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Main Steam, ASME Class 2 (a) Applicable Construction Code: **USAS B31.1** 19 67 Edition. No: Addenda, **Code Case** (b) Applicable Edition Section XI Utilized For R/R Activity 98 Edition. 2000 Addenda. (c) Applicable Section XI Code Case(s) 6. Identification of Components ASME Corrected, Manufacturer **National** Other Year Name of Name of Identification Code Manufacturer Serial Number Board No. Built Removed. Component Stamped or Installed (OH (esY) 9 to the 1-01A-1-1-0-UNK UNK None UNK Removed : NO Lisega 401A-H43 1-01A-1-1-0-UNK UTC 1951821 UNK Installed NO Anvil 37801 401A-H43

As required by the provisions of the ASME Code Section XI									
	Work Order Number	Sheet							
	1978144	4 of 4							
9. Remarks (Applicable Manufacturer's Data Reports to be attached)									
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CERTIFICATE OF COMPLIA	NCE								
I certify that the statements made in the report are correct and that the ASME Code, Section XI.	his conforms to the requireme	nts of the							
	- P13-								
	pplicable								
Certificate of Authorization Number Not Applicable	Expiration Date Not A	pplicable							
Signed Eric K. Smith / Engineer	Date 12/5/2012	2							
Owner or Owner's Designee, Title									
CERTIFICATE OF INSERVICE INS	PECTION								
I, the undersigned, holding a valid commission issued by the Nation		e Vessei							
Inspectors and the State or Province of CAROLUA	and employed by H	SB CT							
of Hartfurd, Connecticut	have inspected the comp								
in this Owner's Report during the period $10 \cdot 19 \cdot 10/2$ to $4 \cdot 10 \cdot 20/5$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures									
described in this Owner's Report in accordance with the requirements of	f the ASME Code, Section XI.								
By signing this certificate deither the Inspector nor his employe	r makes any warranty, expre	essed or implied,							
concerning the examinations and corrective measures described in the inspector nor his employer shall be liable in any manner for any personal transfer and personal transfer an	mis Owners Report, Further Onal injury or property damagi	more, neither the							
kind arising from or connected with this inspection.	side injury or proposel desiring	3 01 0 1000 01 011,							
M X / Q X Commissions of	ado das A s	T 76							
Commissions /3	National Board, State, Province, and	Endorsements							
Date of 10 2013 MARK E. ZURBUG	CH								

Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Lidentification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 Applicable Edition Section XI Utilized For R/R Activity Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number National Board No. Identification Identification of Components	pe Code Symbol sthorization Num spiration Date No 2000 Other	Stamp Not Applica ber Not Applica Not Applica Addenda, Addenda.	Unit. ON Date 1/9/ able able	
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class Main Steam, ASME Class Applicable Construction Code: USAS B31.1 19 67 Edition D) Applicable Edition Section XI Utilized For R/R Activity D) Applicable Section XI Code Case(s) None Identification of Components Name of Component	Station Lwy 2 pe Code Symbol athorization Num spiration Date No 2000 Other	Stamp Not Applica Not Applica Not Applica Addenda, Addenda.	Unit. ON Date 1/9/ able able orrected, emoved,	VS - 1 /2013 Code Ca
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class Main Steam, ASME Class Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Section XI Utilized For R/R Activity Applicable Section XI Code Case(s) None Identification of Components Name of Component Name of Comp	pe Code Symbol othorization Num opiration Date No	Stamp Not Applica Not Applica Not Applica Addenda, Addenda.	Date 1/9/ able able No Corrected, emoved,	/2013 Code Ca
Seneca, SC 2967 Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification	pe Code Symbol othorization Num opiration Date No	Not Application Not Application Not Application Not Application Addenda, Addenda. Year Consult Research	Date 1/9/ able able No orrected, emoved,	/2013 Code Ca
Charlotte, NC 28201-1006 Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification	pe Code Symbol otherization Num spiration Date No 2000 Other	Not Application Not Application Not Application Not Application Addenda, Addenda. Year Consults Built Reference	able able No Corrected,	ASM Code Stamp
Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Ex Identification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class 2 Discrete Applicable Construction Code: USAS B31.1 19 67 Edition Discrete Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Discrete Applicable Section XI Code Case(s) None Discrete Application of Components Name of Name of Manufacturer Serial Number Board No. Identification of Component Manufacturer Serial Number Board No.	pe Code Symbol whorization Num spiration Date No	Not Applica Not Applica Not Applica Addenda, Addenda. Year Co Built Re	able able No	ASM Code Stamp
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Ex Identification of System, ASME Class Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification	No 2000 Other	Not Applica Not Applica Not Applica Addenda, Addenda. Year Co Built Re	No Corrected,	Code Ca
Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006 Identification of System, ASME Class Main Steam, ASME Class Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification No.	No 2000	Not Applica Not Applica Addenda, Addenda. Year Co Built Re	No Corrected,	ASM Cod Stamp
Charlotte, NC 28201-1006 Identification of System, ASME Class Main Steam, ASME Class 2 Main Steam, ASME Class 2 Main Steam, ASME Class 2 Main Steam, ASME Class 2 Main Steam, ASME Class 2 Main Steam, ASME Class 2 Edition of Applicable Construction Code: USAS B31.1 19 67 Edition 19 98 Edition of Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification No. Ident	No 2000 Other ntification	Addenda, Addenda. Year Consult Reference	No Corrected,	ASM Cod Stamp
Applicable Construction Code: USAS B31.1	No 2000 Other ntification	Addenda, Addenda. Year Co Buitt Ro	No Corrected,	ASM Cod Stamp
Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification	No 2000 Other ntification	Addenda, Addenda. Year Co Buitt Ro	No Corrected,	ASM Cod Stamp
Main Steam, ASME Class 2 Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification	Other ntification	Addenda. Year Co	orrected,	ASM Cod Stamp
Applicable Construction Code: USAS B31.1 19 67 Edition Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition Applicable Section XI Code Case(s) None Identification of Components Name of Name of Manufacturer Serial Number Board No. Identification	Other ntification	Addenda. Year Co	orrected,	ASM Cod Stamp
Name of Name of Manufacturer Serial Number Board No. Iden	ntification	Built Re	emoved,	Cod Stamp
Component Manufacturer Serial Number Board No. Iden	ntification	Built Re	emoved,	Cod Stamp
		· · · · · · · · · · · · · · · · · · ·	installed	
-01A-0-550-H20 DUKE N/A N/A	N/A			L
		1973 C	orrected	NO
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	<u>,, j</u>		. 9	
		ļ		
. Description of Work				
Veided on S/R to add margin		•		
. Test Conducted				

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 1978808 Remarks (Applicable Manufacturer's Data Reports to be attached) Weld material, 3/32, Stock No. 0000082453, Lot No. 2H116D01, Heat No. M100139, UTC1987222 6 6 0 0 0 PIP 0-13-367 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.a. Type Code Symbol Stamp Not Applicable Certificate of Authorization Number **Expiration Date** Not Applicable Signed Engineer II Date Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Worth Carolina and employed by HSB CT have inspected the components described Hartford, Connecticut , and state that in this Owner's Report during the period to to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied. concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions NB8447 NC1169 ABNI National Board, State, Province, and Endorsements Inspector's Signature

As required by the pro	ovisions of the ASM	c Code Section XI		Work Order Num	nber	Sheet			
	*;			19831	65-10	[™] 10	f 2		
526 South	ergy Carolinas, LI Church Street , NC 28201-1006		•	•		Date	/S - 1 /2012		
3. Work Performe	d by			Type Code Sym	bol Stamp Not App		,		
	ergy Carolinas, LI h Church Street	.c		Authorization N	Authorization Number Not Applicable				
Charlotte	, NC 28201-1006	; 、		Expiration Date	Expiration Date Not Applicable				
4. Identification of System, ASME Class Feedwater, ASME Class 2									
6. (a) Applicable Com (b) Applicable Editi (c) Applicable Sect	on Section XI Utilize ion XI Code Case(s	•		Edition, No Edition, 2000	Addenda Addenda		Code Case		
Identification of Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)		
04A-0-478A- NPS-H35A	Lisega	61296/34	UNK	None	UNK	Removed	NO		
04A-0-478A- NPS-H35A	Lisega	30800150/03 6	UNK	UTC 1924465	UNK	Installed	NO		
		.:			1 1 ₂ .	1			
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					Asys.				
7. Description of Replace lisega sm 8. Test Conducte Hydrost	ubber found with i	ic Nominal C	perating Pressure		Other _				
	Pressure	PSI	Test Temp	eratur e	of		.*		

As required by the provisions of the ASME Code Section XI		
	Work Order Numbe	er Sheet
	1983165-	10 2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
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•		
		#
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6		
6		
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•		
•		
I certify that the statements made in the report are correct and the ASME Code, Section XI. Type Code Symbol Stamp No	at this conforms to the t Applicable	requirements of the
Certificate of Authorization Number Not Applicable	Expiration Date	Not Applicable
Signed & X Eric K Smith / Engineer	Date	12/5/12
Owner or Owner's Designee, Title		
		والأراب والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع
CERTIFICATE OF INSERVICE		
I, the undersigned, holding a valid commission issued by the Nat Inspectors and the State or Province of North Consuma		nd Pressure Vessel HSB CT
of Hartford, Connecticut		the components described
in this Owner's Report during the period /// 4 / / 3	to 1/16/13	, and state that
to the best of my knowledge and belief, the Owner has perform		
described in this Owner's Report in accordance with the requirement By signing this certificate neither the Inspector nor his empl		
concerning the examinations and corrective measures described		
Inspector nor his employer shall be liable in any manner for any pakind arising from or connected with this inspection.		
Noney CRither Stretter Commissions	1B8447 NC116	9 ABNI IS Province, and Endorsements
1/11/2013	National Board, State,	Province, and Endorsements
Date		

s required by the pro	ovisions of the ASMI	E Code Section X	Linguis States	Work Order Nun	nber	Sheet	
				02023454-10		l of 2	
1. Owner		12.	Plant			Unit.	
`	ergy Carolinas, LL		Oconee Nuc	lear Station	4, 44 T F		NS - 1
	Church Street	~	7800 Roches			Date	
Charlotte	NC 28201-1006		Seneca, SC				3/2012
3. Work Performe	d by			Type Code Sym	bol Stamp Not Applica	able	
526 Sout	ergy Carolinas, LI h Church Street			Authorization N	umber Not Applica	able	: 17 - 18 - 18
Charlotte	, NC 28201-1006	1		Expiration Date	Not Applica	able	
l. Identification of	System, ASME CI LPSW - Piping to		tor Air Coolers (RC	PMAC) Upper,		1.7	ii.
).							
(a) Applicable Con	struction Code: on Section XI Utilize	USAS B31.1		dition, No 2000	_ Addenda, _ Addenda.	No: (Code Case
	ion XI Code Case(s		y 19 <u>76</u> E	uttion, <u>2000</u>	Addenda.		
6. Identification of		/					
Name of Component	Name of Manufacturer	Manufacturer Serial Number		Other Identification	Built Re	orrected, emoved, installed	ASME Code Stamped (Yes / No
BI RCPMUAC bolting (1)	Duke	Unknown	None	None	2012	nstalled	NO
	···::						
	·	S. *					
}:							
		·	-45% 2 - 27				
		, ⁷ . k					
<u> 12-1</u>		:					
7. Description of	Mork		<u> </u>			·	I
Work on the 1B1 Low Pressure Ser due to surface de	RCP Motor Cook vice (LPSW) pipi gradation & maint	ng from the coil	ng) required remove ls. The 1/2-inch dia ence.				
B. Test Conducte Hydrost	-	ic Nomina PSI	l Operating Pressure Test Tempe	Exempt _	Other	¥	

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI

		Work Order Number	Sheet
		02023454-10	2 of 2
9. Remarks (Applicable Manufacturer's Data	Reports to be attached)		
• Replaced RCP Motor Air Cooler waterbox GR 2H, ANSI B18.2.2, ASME SA 194 Gr 2H UNC-2A, alloy stl, ASME SA193 GR B7, Ca	I, Catalog ID 313135, UTC # 000)1987147 Studs - cut from 1	
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§	-		
9			
10			· ·
			· .
I certify that the statements made in the ASME Code, Section XI. Type Code Symbol Stamp		with the second second second	ients of the
Certificate of Authorization Number	Not Applicable	Expiration Date Not	Applicable
Signed Armes H Batters Owner or Owner's Designe		Date Nov. 15, 2012)
Owns of Owner 3 Designs			
CI	ERTIFICATE OF INSERVICE INS	SPECTION	
I, the undersigned, holding a valid control inspectors and the State or Province of Notice of Hartford, Control in this Owner's Report during the period	Joth Cuslina mnecticut 1/13/13	and employed by have inspected the com to 1/1>/13	HSB CT ponents described , and state that
to the best of my knowledge and belied described in this Owner's Report in according the sequence of the seque	dance with the requirements one inspector nor his employective measures described in the in any manner for any persuspection.	of the ASME Code, Section X er makes any warranty, exp this Owner's Report. Furth conal injury or property dama	II. pressed or implied ermore, neither the age or a loss of an
Noney Cathel South	Commissions N	88447 NCILLA ABNI National Board, State, Province, a	TS and Endorsements
	•		

s required by the prov	asions of the ASME	Code Section XI		Work Order Num	ber	Sheet	۔ جے جس ادی
	. 12			2024	026	1 0:	f 2
I. Owner		2. Pla		ب دسین میں میں اس		Unit	
Duke Ener	gy Carolinas, LL	C in	Oconee Nuc	clear Station	٠.	ON	IS - 1
526 South	Church Street		7800 Roche	•	i May	Date	
Charlotte,	NC 28201-1006		Seneca, SC	29672		12/3	/2012
3. Work Performed		<u> </u>		Type Code Symb	ool Stamp: Not App	licable	
	rgy Carolinas, LI Church Street	.C The Miles of the Control		Authorization Nu	mber Not App	nlicable	
	NC 28201-1006			Expiration Date	. Hot ripp	, iloubio	2 ýsa
		المانية والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والم			Not App	olicable	
4. Identification of	System, ASME CI SSF RC Makeup	System, SSF RC	makeup 10 Gall	on Accumulator,	ASME Cla	iss 2	y No. 1
5.		A COR ATTLET	10 74	1056		Nr	3-d- O
(a) Applicable Cons (b) Applicable Edition				Edition, 1975 Edition, 2000	_ Addenda Addenda	***************************************	Code Case
(c) Applicable Section						, , , , , , , , , , , , , , , , , , ,	
6. Identification of	Components		-	· .	.·	£4.1	4.5
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed.	ASME Code
:::	Harwiactur G	Ceriai Mannosi	Doard No.	iwan garangan	. Dune	or installed	Stamped (Yes / No)
ONISFAC0001	Greer Hydraulics	UNK	UNK	Part No. 1855- 845140	UNK	Corrected	YES
·				·		: 	
			:. <u>;</u>				
	.51	to the grade of the control		· :	:2.4		
							·
			·				
		<u> </u>					
i. Fil	. *		:				
7. Description of	Work				<u>. </u>		
The work being c		ular preventative i	maintenance prac	ctice that is done o	n the SSF	RCMUP 10	GAL.
Accumulator	· ·				* 1	·	<u> </u>
8. Test Conducte	ed						
Hydrosi			perating Pressure		Other		
P.	Pressure	PSI	Test Tem	perature	°F	<i>‡</i>	. Said

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02024026 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • Valve core UTC 001070869 was installed by the subject WO. **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 Not Applicable Expiration Date Certificate of Authorization Number Not Applicable Not Applicable Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Caulinu and employed by HSB CT have inspected the components described Hartford, Connecticut , and state that in this Owner's Report during the period 1/1/13 to to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions AB8447 NC1164 ABNI Inspector's Signature National Board, State, Province, and Endorsements

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number Sheet 02088428-01 1 of 2 Unit 2. Plant 1. Owner Duke Energy Carolinas, LLC ONS - 1 Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Seneca, SC 29672 Charlotte, NC 28201-1006 2/20/2014 Type Code Symbol Stamp 3. Work Performed by Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Building Spray, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition. No Addenda. Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 98 2000 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 8. Identification of Components Manufacturer ASME Name of Name of National Other Year Corrected, Component Manufacturer: Serial Number: Board No. Identification Built Removed. Code or Installed Stamped (Yes / No) 1BS-4 unk unk Corrected NO Стапе unk unk 7. Description of Work Replaced body to bonnet study and nuts due to lack of full thread engagement... 8. Test Conducted

Nominal Operating Pressure

Poeumatic

Pressure

Hydrostatic

Exempt

Test Temperature

Form NIS-2 Owner's Report for Repair/Replacement Activity As required by the provisions of the ASME Code Section XI Work Order Number 2 of 2 02088428-01 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • Replaced the body to bonnet bolting for 1BS-4 using the following materials: 32 7/8" nuts, (20) UTC 1961095 and (14) UTC 1971070, replaced all 16 studs using 7/8" threaded rod from UTC-2026175. 0 Ø 0 **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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable 2/20/2014 /James R Kiser, Lead Engineer Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South CARO (Mg) and employed by have inspected the components described Hartford, Connecticut in this Owner's Report during the period //. 5./3 to /2.4-/4 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 13048, 201, A, N, I, C, T, S
National Board, State, Province, and Endorsements MARK E. ZURBUCH

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 02092752-01 Unit 1. Owner 2. Plant ONS - 1 Oconee Nuclear Station Duke Energy Carolinas, LLC 526 South Church Street 7800 Rochester Hwy Seneca, SC 29672 Charlotte, NC 28201-1006 9/4/2013 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Building Spray, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition, No Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer National Corrected. ASME Name of Name of Other Year Identification Component Manufacturer Serial Number Board No. Built Removed, Code or Installed Stamped (Yes / No) UNK NO 1BS-18 Crane Co 5021447-03 UNK See Remarks Corrected 7. Description of Work Replace body to bonnet studs, reuse existing nuts. 8. Test Conducted Pneumatic Nominal Operating Pressure Exempt Hydrostatic **Test Temperature**

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 02092752-01 9. Remarks (Applicable Manufacturer's Data Reports to be attached) • Rod, Threaded, 3/4" 10UNC-2A, SS ASME SA193 FR B8M Class 1, UTC# 0001899917 0 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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Will Beekman, Engineer II Date Signed 9/4/2013 Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission is aued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by have inspected the components described Hartford, Connecticut in this Owner's Report during the period 7/23/14 to 7/23/14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Return Staughten Commissions NB8447 NC1/69 ABNI IS
Inspector's Signature National Board, State, Province, and Endorsements Date

Submittal of the NIS-2 Forms performed prior to implementing Code Case N-532-4 in the current interval (5th).

Attachment 2

The attached NIS-2 reports detail the repair/replacement of Class 1, 2 and 3 piping and components for Duke Energy's, Oconee Unit 1. These repairs or replacements were performed prior to the implementation of Code Case N-532-4.

Piping and components were inspected/tested in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel code "Rules for Inservice Inspection of Nuclear Power Components, "2007 Edition through 2008 Addenda.

NIS 2 List for 1EOC28

Work Order #	Class
Class 1	
2139572	1
2139991	1

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2139572 1 of 2 1. Owner 2. Plant Unit Duke Energy Carolinas, LLC Oconee Nuclear Station ONS - 1 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672. 11/16/2014 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant, ASME Class 1... (a) Applicable Construction Code: 1584 Edition. ASME Section III No Addenda. Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 2007 Edition. Addenda. 2008 (c) Applicable Section XI Code Case(s) _ None 6. Identification of Components Name of Name of Manufacturer National Other Corrected, ASME Year Manufacturer Component Serial No. Board No. Identification Removed, Bulk Code or installed Stamped (Yes / No) Steam Generator BWC 006K02 206 See Remarks 2003 Corrected YES ONIRCHX000B 7. Description of Work Plugging of Steam Generator primary tubing. 8. Test Conducted Hydrostatic Pacumatic Nominal Operating Pressure Exempt Other Pressure Test Temperature

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2 of 2 2139572 9. Romarks (Applicable Manufacturer's Data Reports to be attached) • Installed 17 mechanical rolled plugs in the 1B Steam Generator Outlet Tube sheet. (Reference Attached Plugging List) Plugs were removed from the Wharehouse in one batch: Mechanical - UTC 2045965 - 17ea; 17 Installed 17 threaded rolled plugs in the 1B Steem Generator Inlet Tube sheet. (Reference Attached Plugging List) Plugs were removed from the Whatehouse in one batch; Threaded - UTC 2045972 - 17ea ن الارتأب Ø 0 0 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 Not Applicable. Expiration Date Not Applicable Certificate of Authorization Number Not Applicable B. ton Killedies Owner or Owner's Designee, CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of South CATOINA and employed by HSB Global Standards have inspected the components described Hartford, Connecticut in this Owner's Report during the period 1/15/14 to 2/4/15, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or confected with this inspection. MARK E. ZURBUCH

STEAM GENERATOR REPAIR LIST OCONEE UNIT 1, EOC-28, November 2014 SG B

Tube Plugging

REVISION 0

Page 1 of 1

DUKE ENERGY

STEAM REPAIR METHOD GENERATOR Revision 0 B 57 ST,P **9T,P** 8 63 TSP Womr ≥ 40% ₽ 72 ST,P T8P Wear ≥ 40% 8 73 ST,P TSP Wear ≥ 40% 8 8T,P 75 TSP Wear 2 40% В 92 5 ST.P TSP Wear 2 40% B 80 17 ST,P **TSP Wear 2 40%** 68 TSP Wear ≥ 40% 18 ST,P 72 18 8T.P TSP Wear ≥ 40% B 147 27 ST,P TSP Wear ≥ 40% B 39 143 ST,P TSP Wear 2 40% В 39 ST,P TSP Wear 2 40% 144 8 141 43 ST.P TSP Wear ≥ 40% 8 140 46 ST,P TSP Woar 2 40% В 129 48 ST,P TSP Wear ≥40% 8 140 48 ST,P TSP Wear 2 40%

Count

140

APPROVALS:

8

NB Mayo 11/16/2014

50

SGME Technical Support

16 NOV 2014

- Calledon

COULA NAME INSTRUMENT

Duke's Independent QOA

KEY TO REPAIR8:

P - Rolled Plug

ST - Rolled Plug w/ Full length Wire Rope Stabilizer

TER - Tube end repair

As required by the provisions of the ASME Code Section XI Work Order Number 2139991 1 of 2 2. Plant 1. Owner ONS - 1 Oconee Nuclear Station Duke Energy Carolinas, LLC 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 11/16/2014 Type Code Symbol Stamp 3. Work Performed by Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 Expiration Date Not Applicable 4. Identification of System, ASME Class Reactor Coolant, ASME Class 1 1585 Edition, ASME Section III Addenda, Code Case (a) Applicable Construction Code: No No -2007 Edition 2008 (b) Applicable Edition Section XI Utilized For R/R Activity Addenda. (c) Applicable Section XI Code Case(s) 5. Identification of Components Corrected, Manufacturer National Other Year ASME Name of Name of Identification Component Manufacturer Serial No. Board No. Bullt: Removed, Code or installed Stamped (Yes / No) Steam Generator **BWC** 006K01 205 See Remarks 2003 Corrected YES 1A ONIRCHX000A 7. Description of Work Plugging of Steam Generator primary tubing. 8. Test Conducted **Exempt** Hydrostatic Preumatic Nominal Operating Pressure Other Pressure Test Temperature

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 2139991 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) 1 Installed 35 mechanical rolled plugs in the 1A Steam Generator Outlet Tube sheet. (Reference Attached Plugging List) Plugs were removed from the Wharehouse in three batches; Mechanical - UTC 2045966 - 14ea, Mechanical - UTC 2045962 - 2ea, Mechanical - UTC 2045965 19ea Installed 35 threaded rolled plugs in the IA Steam Generator Inlet Tube sheet. (Reference Attached Plugging List) Plugs were removed from the Wharehouse in two batches; Threaded - UTC 2045970 - 14ea, Threaded - UTC 2045972 21ea 0 0 0 0 0 Ø 0 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 Not Applicable Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Owner or Owner's Designee, Title **CERTIFICATE OF INSERVICE INSPECTION** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLWA and employed by HSB Global Standards of have inspected the components described Hartford, Connecticut , and state that in this Owner's Report during the period 10 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate cellther the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from seconnected with this inspection. Commissions 13048, 201, A, N, I, C, IS
National Board, State, Province, and Endorsements MARK E. ZURBUCH

DUKE ENERGY

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Page 1 of 2 ...

138

STEAM GENERATOR REPAIR LIST OCONEE UNIT 1, EOC-28, November 2014 SG A Tube Plugging

REVISION _1

STEAM		¥	REPAIR	ETHOD	į.
GENERATOR Revision 1	ROW	COL	HL	<u>CL</u>	COMMENTS
A	62	5	ST,P	P	TSP Wear 2 40 % TW
A	10	15	8T,P	President	TSP Wear 2 40 % TW
A	146	17	ST.P	P	TSP Wear ≥ 40 % TW
A	6	33	ST,P	P	TSP Wear ≥ 40 % TW
A	7	35	ST,P	P	TSP Wear ≥ 40 % TW
A 14.1	148	36	ST,P	P	TSP Wear ≥ 40 % TW
A	54	44	ST,P	P	TSP Wear 2 40 % TW
A	9	48	ST,P	P	TSP Wear ≥ 40 % TW
A	9	49	ST,P	P	TSP Wear ≥ 40 % TW
A	141	49	ST,P	P	TSP Wear ≥ 40 % TW
A	12	63	ST,P	P	TSP Wear ≥ 40 % TW
. A	14	56	ST,P	P	TSP Wear 2 40 % TW
A	18	80	ST,P	ု ၉ ၁၆၅၁	TSP Wear 2 40 % TW
A	11	62	ST,P	P	TSP Wear ≥ 40 % TW
Α	17	62	5 7 ,P	P	TSP Wear 2 40 % TW
A	17	64	ST,P	P	TSP Wear 2 40 % TW
Α	137	64	9T,P	P	TSP Wear ≥ 40 % TW
A	130	82	ST,P	P	TSP Wear ≥ 40 % TW
A	22	85	ST,P	P	TSP Wear ≥ 40 % TW
. A	126	91	8T,P	p ·	TSP Wear 2 40 % TW
- A	34	102	ST,P	P	TSP Wear 2 40 % TW
A	111	104	ST,P	P	TSP Wear 2 40 % TW
A	45	107	ST,P	P	TSP Wear 2 40 % TW
A	46	113	9,TB	P	TSP Womr 2 40 % TW
A	74	117	ST,P	P	TSP Weer 2 40 % TW
A	101	117	8T,P	P	TSP Wear ≥ 40 % TVV
Α .	70	118	ST,P	P	TSP Wear ≥ 40 % TW
A	74	118	87,7	P	TSP Wear ≥ 40 % TW
A	71	123	ST,P	P	TSP Wear ≥ 40 % TW
A	61	124	9T,P	P	TSP Wear ≥ 40 % TW
A -	89	124	3 T,P	P	TSP Wear ≥ 40 % TW
A	87	125	8T,P	P	TSP Wear 2 40 % TW
A	86	125	ST,P	P	TSP Wear ≥ 40 % TW
A	86	128	87,P	P	TSP Wear a 40 % TW
A	64	127	9T,P	P	TSP Wear 2 40 % TW

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Count 35

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KEY TO REPAIRS:

P - Rolled Plug ST - Rolled Plug w/ Full Length Wire Rope Stabilizer

TER - Tube end repair

2:01 PM 11/19/2014

STEAM GENERATOR REPAIR LIST OCONEE UNIT 1, EOC-28,

REVISION 1

Page 2 of 2

DUKE ENERGY

November 2014 SG A Tube Plugging

STEAM

REPAIR METHOD

GENERATOR

ROW COL

HL GL

COMMENTS

JBM ens 11/16/20

SGME Technical Support

RAW ECT Lead

B&W Data Menegement

Duke's Independent QDA

KEY TO REPAIRS:

P - Rolled Plug ST - Rolled Plug w/ Full Length Wire Rope Stabilizer TER - Tube end repair