JAMES R. MORRIS
Vice President

Catawba Nuclear Station
4800 Concord Rd. / CN01VP
York, SC 29745-9635

803 831 4251
803 831 3221 fax

May 7, 2007

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

Subject: Duke Power Company LLC d/b/a Duke Energy Carolinas, LLC (Duke)
Catawba Nuclear Station, Unit 2
Docket Number 50-414
Submittal of Steam Generator Inservice Inspection Documentation for Third Ten-Year Interval

References:
1. Letter from D.M. Jamil to NRC, Submittal of Third Ten-Year Interval Inservice Inspection Plan and Inservice Inspection Pressure Test Plan, dated March 6, 2006

2. Letter from D.M. Jamil to NRC, Steam Generator Outage Summary Inservice Inspection Report for End of Cycle 14 Refueling Outage, dated July 18, 2006

In the Reference 1 letter, Duke submitted the third ten-year interval inservice inspection plan and inservice inspection pressure test plan for Catawba Unit 2. As part of this submittal, Duke indicated that Catawba Unit 2 began its third ten-year interval on October 15, 2005, which was earlier than its originally planned third ten-year interval start date of August 19, 2006. This was being done in order to align all of Duke's nuclear units to the same ten-year interval ASME Code Edition/Addenda. The first refueling outage in the Catawba Unit 2 third ten-year interval was the End of Cycle 14 Refueling Outage.

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In the Reference 2 letter, Duke submitted the steam generator outage summary inservice inspection report for the End of Cycle 14 Refueling Outage. The NIS-1 form contained in the Reference 2 letter erroneously referred to the third inspection period of the second inspection interval and also to the ASME Code Edition that was in effect for the second inspection interval. When the Reference 2 letter was submitted, it was not recognized that the third ten-year interval start date for the Catawba Unit 2 inservice inspection plan had been changed. On October 5, 2006, the Steam Generator Maintenance and Engineering group discovered the change in the third ten-year interval start date for the Catawba Unit 2 inservice inspection plan (the steam generator inservice inspection plan and the inservice inspection plan for the other plant components are separate documents which are developed independently by two different groups). The discrepancy between the third ten-year interval start dates for the two plans was entered into Catawba's Corrective Action Program as Problem Investigation Process Report C-06-06816.

The purpose of this letter is to submit the following:

1. Third Interval Steam Generator Inservice Inspection Plan for Catawba Unit 2 (Attachment 1)

2. Revised Steam Generator Outage Summary Report title page and NIS-1 form for Catawba Unit 2 End of Cycle 14 Refueling Outage (Attachment 2) (the inspection scope and results were not affected by this revision; only the NIS-1 form has been revised to reflect the updated inspection interval and ASME Code Edition/Addenda)

Duke regrets any confusion that may have been caused as a result of this issue.

There are no regulatory commitments contained in this letter or its attachments.

If you have any questions regarding this information, please call L.J. Rudy at (803) 831-3084.

Very truly yours,

James R. Morris

LJR/s

Attachments

xc (with attachments):

W.D. Travers, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

A.T. Sabisch, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Catawba Nuclear Station

J.F. Stang, Jr., Senior Project Manager (addressee only)
U.S. Nuclear Regulatory Commission
Mail Stop 8-H4A
Washington, D.C. 20555-0001

Attachment 1

Third Interval Steam Generator Inservice Inspection Plan for Catawba Unit 2

THIRD INTERVAL STEAM GENERATOR INSERVICE INSPECTION PLAN

CATAWBA NUCLEAR STATION

UNIT 2

REVISION 0

Duke Power Company LLC d/b/a Duke Energy Carolinas, LLC

Prepared By:	C B Cantrell	Date 4-24-07
Reviewed By:	D B Mayes C	Date 4-25-07
Checked By:	W K J	Date 25 Apr '07
Approved By:	P.W. Rousing	Date 4-25-07
ANII Review:	Robert Mullil	Date 4-26-07

CATAWBA NUCLEAR STATION

GENERAL INFORMATION

Location: 4800 Concord Road, York, S. C. 29745

Commercial Service Date: August 19, 1986

Third Interval Start Date: October 15, 2005

Third Interval End Date: August 19, 2016

Owner: Duke Power Company LLC d/b/a Duke Energy Carolinas, LLC
526 South Church St.
Charlotte, N. C. 28201-1006

TABLE OF CONTENTS

1.0 Applicable Codes and Standards for Inservice Inspection

"In accordance with the requirements of paragraph 50.55a(g) of 10CFR Part 50 (effective date October 28, 2002), the inservice inspection of unit 2's steam generators of the Catawba Nuclear Station will be performed in accordance with inspection Program B of the 1998 Edition, thru 2000 Addenda of ASME Section XI hereafter referred to as Section XI. The inservice inspection examinations will be performed in accordance with Inspection Program B of Section XI. All examinations will be performed to the extent practicable within the limitations of design, geometry and materials of construction of the component.

Note: The steam generators are not included in Catawba Nuclear Station's 3rd interval station ISI plan other than by reference in section 1.1. The referenced paragraph states in full:

> Steam generator tubing will be inspected as required by ASME Secton XI and the Catawba Technical Specifications for Catawba Nuclear Station. The Steam Generator Maintenance Section/Nuclear Technical Services Division has overall responsibility for this inspection. This work is planned, implemented, documented and reported independently from this document.

As a result, this stand-alone SG ISI plan is being developed for the 3rd Interval which covers 10/15/2005 thru 8/19/2016. This plan was not submitted at the same time as the remaining station components 3rd Interval Plan due to an administrative oversight. Catawba unit 2 outage EOC14 is included as the first outage in this plan. Review of the requirements of the 1998 thru 2000 addenda have determined that the inspections completed and reporting of results for steam generator tubing during EOC14 outage to be in compliance.

1.1 Additional Codes and Standards Used

Steam generator tubing will be inspected as required by ASME Section XI and the Technical Specifications for Catawba Nuclear Station. The Steam Generator Maintenance and Engineering Group of the Nuclear Technical Services Division has overall responsibility for this inspection.

1.2 Code Case Applicable to ASME Boiler & Pressure Vessel Code Section XI

The following code cases will be used for the third interval Inservice Inspection Program at Catawba Unit 2 for the steam generator tubing inspections:

None

1.3 Applicable Duke Power Administrative Procedures

The following Duke procedures will be used to control steam generator tubing inservice inspection activities and inservice inspection plans and reports:

PROCEDURE NUMBER	TITLE
NSD-300	ASME Section XI Program
NSD-701	Records Management
NSD-702	Document Management
NSD-703	Administrative Instructions for Technical Procedures
NSD-704	Technical Procedure Use and Adherence
NSD-800	Software and Data Quality Assurance (SDQA) Program
SGMP	Steam Generator Management Program

2.0 System Boundary Subject to Inspection

The steam generator tubing is part of the pressure boundary for the class 1 reactor coolant system (NC system).

2.1 Inspection Interval and Inspection Periods

Third Inspection Interval

Start Date — End Date

10/15/2005 – 10/15/2008	10/15/2008 – 10/15/2012	10/15/2012 – 8/19/2016
1st Period	2nd Period	3rd Period
Refueling Outage 1: EOC 14	Refueling Outage 3: EOC 16	Refueling Outage 6: EOC 19
Refueling Outage 2: EOC 15	Refueling Outage 4: EOC 17	Refueling Outage 7: EOC 20
	Refueling Outage 5: EOC 18	

3.0 Inspection Methods and Procedures to Be Used for Inservice Inspection

Inservice inspection of Catawba unit 2 will be performed using procedures which comply with the requirements of the applicable codes referenced in Section 1 of this plan. The volumetric

method of inspection will be used to inspect the steam generator tubing as required. Each inspection will be performed under the QA program of the organization performing the inspection.

Interfacing Vendor Procedures, will be used to perform the steam generator tubing inservice inspection as reviewed and approved by Duke.

3.1 Volumetric Inspection

Steam generator tubing will be examined using the eddy current inspection method as required by Section XI and the Catawba Technical Specifications. The Steam Generator Maintenance and Engineering Group (SGME) of the Nuclear Technical Services Division has overall responsibility for implementing and reporting inspections pertaining to steam generator tubing.

4.0 Description of Inservice Inspection Plan for Steam Generator Tubing

The inservice inspection of the steam generator tubing shall be performed in accordance with the requirements of Article IWB-2000 of Section XI. Specific examinations are defined in table IWB 2500-1, examination category B-Q, to be as required by the plant Technical Specifications. Tube examination extent and frequency will follow CNS Technical Specification 5.5.9.

4.1 Examination Categories and Requirements

The examination category for Steam Generators is listed in Table IWB-2500-1 of Section XI. The specific examination will be identified by an item number similar to those listed in Table IWB-2500-1 of Section XI, plus an additional number to uniquely identify the steam generator being inspected.

Category B-Q **Steam Generator Tubing**

IWB-2500-1 Item	Component To Be Examined	Comments
B16.10	Steam Generator Tubing in Straight Design	N/A for Catawba unit 2
B16.20	Steam Generator Tubing in U-Tube Design	S/G Tubing is examined and documented by the SGME Group of the Nuclear Technical Services Division as required by CNS Technical Specifications Sect. 5.5.9.

4.2 Specific Steam Generator Item Number with Corresponding ID Number, General Arrangement and As-Built Drawings

Steam Generator	Item Number	ID Number	Drawing Number
A	B16.020.001	2SGA - Tubes	CNM 2201.01-0113
B	B16.020.002	2SGB - Tubes	CNM 2201.01-0106
C	B16.020.003	2SGC - Tubes	CNM 2201.01-0105
D	B16.020.004	2SGD - Tubes	CNM 2201.01-0114

Vessel General Arrangement – CNM 2201.01-0102

4.3 Steam Generator Tubing Material and Dimensions

Tubing Drawing Numbers

CNM 2201.01-0939	-	Material SB-163 Alloy 600
CNM-2201.01-0635 thru	-	0.750" Outside Diameter
CNM 2201.01-0642	-	0.043" Wall Thickness

5.0 Calibration Standards

5.1 Eddy Current Calibration Standards

Calibration standards are vendor supplied. Calibration standards that will be used include bobbin, MRPC, array and plug type standards. Eddy current examinations are scheduled and performed per Catawba Technical Specification 5.5.9.

5.2 Calibration Standard Description

Calibration standards are vendor supplied.

Attachment 2

Revised Steam Generator Outage Summary Report Title Page and NIS-1 Form for Catawba Unit 2 End of Cycle 14 Refueling Outage

Steam Generator Outage Summary Report

Catawba Unit 2 2006
Outage EOC 14

Location: 4800 Concord Road, York South Carolina 29745

NRC Docket No. 50-414

National Board No. 173

Commercial Service Date: August 19, 1986

Owner: Duke Power Company LLC d/b/a Duke Energy Carolinas, LLC
526 South Church St.
Charlotte, N.C. 28201-1006

Revision 1

Prepared By: CB Caulter Date: 4-24-07

Reviewed By: QB Mayo Date: 4-25-07

Checked By: W-K J Date: 25 Apr '07

Approved By: P.W. Bousing Date: 4-25-07

Copy No. 1 Assigned To: NRC

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1	NRC Document Control

Uncontrolled Distribution

2	Hartford Steam Boiler Inspection and Insurance Co. (AIA)
Electronic	Steam Generator Desktop

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Power Company LLC d/b/a Duke Energy Carolinas, LLC
   526 S. Church St.. Charlotte, NC 28201-1006
   (Name and Address of Owner)

2. Plant: Catawba Nuclear Station, 4800 Concord Road, York, S. C. 29745
   (Name and Address of Plant)

3. Plant Unit: 2

4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date: August 19, 1986

6. National Board Number for Unit 173

7. Components Inspected:

Component	Manufacturer	Manufacturer Serial No.	State or Province No.	National Board No.
Steam Generator 2A	Westinghouse	1923	N/A	4
Steam Generator 2B	Westinghouse	1922	N/A	3
Steam Generator 2C	Westinghouse	1921	N/A	2
Steam Generator 2D	Westinghouse	1924	N/A	5

Revision 1:

Report is amended to reflect the 1998 edition of Section XI with 2000 addenda and reflect that EOC14 was first inspection for the 1st period of the 3rd interval.

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8^1/_2$ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates 10/15/2005 to 04/24/2006

9. Inspection Period Identification: **#1**

10. Inspection Interval Identification: **#3**

11. Applicable Edition of Section XI 1998 Addenda 2000

12. Date/Revision of Inspection Plan: **Per Technical Specification (5.5.9)**

13. Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

14. Abstract of Results of Examination and Tests.

15. Abstract of Corrective Measures.

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

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date April 25 20 07 Signed Duke Power Co. LLC d/b/a Duke Energy Carolinas, LLC Owner By P.W. Bussing

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NC employed by *The Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owners' Report during the period 03/27/2006 to 07/13/2006, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Ownersí Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, test, and corrective measures described in this Ownersí 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

Robert McGill Commissions NC 978

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

Date 4-26 20 07

* The Hartford Steam Boiler Inspection & Insurance Company of Connecticut (HSB CT)
200 Ashford Center North
Suite 205
Atlanta, GA. 30338