



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

August 30, 2012

Mr. Kelvin Henderson  
Site Vice President  
Duke Energy Carolinas, LLC  
Catawba Nuclear Station  
4800 Concord Road  
York, SC 29745-9635

**SUBJECT: CATAWBA NUCLEAR POWER STATION, NOTIFICATION OF INSPECTION AND  
REQUEST FOR INFORMATION**

Dear Mr. Henderson:

From November 5 - 9, 2012, the NRC will perform a baseline Occupational Radiation Safety Inspection at the Catawba Nuclear Power Station for NRC Inspection Procedures 71124.03 (In-Plant Airborne Radioactivity Control and Mitigation), 71124.04 (Occupational Dose Assessment), and 71124.05 (Radiation Monitoring Instrumentation). Experience has shown that this inspection is resource intensive for both the NRC inspectors and your staff. In order to minimize the impact to your on-site resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the preparation, and/or the on-site portions of the inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Paul Simbrat at (803) 701-3424 of your organization, and that the material be available for review by October 19, 2012. If there are any questions about this inspection or the material requested, please contact the lead inspector, Wade Loo at (404) 997-4727.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its Enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system(ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget under control

numbers 3150-0044, 3150-0014, 3150-0011, and 3150-0008. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information, or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number."

Sincerely,

**/RA/**

Brian R. Bonser, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Docket No. 50-413, 50-414  
License No. NPF-35, NPF-52

Enclosure:  
Inspection Document Request

cc : (See page 3)

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Inspection Document Request

cc: (See page 3)

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ADAMS: ☒ Yes ACCESSION NUMBER: ML12243A454      ☒ SUNSI REVIEW COMPLETE      ☒ FORM 665 ATTACHED

OFFICE	RII: DRS/PSB1	RII: DRS/PSB1			
SIGNATURE	WTL	BRB1			
NAME	W. LOO	B. BONSER			
DATE	8/ 29 /2012	8/ 30 /2012			
E-MAIL COPY	<b>YES</b> NO	<b>YES</b> NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRSII\PSB1\CATAWBA\2012\PSB1 RP CATAWBA 2012 005 DOC  
REQ LTR REV1.DOCX

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## **PRE-INSPECTION DOCUMENT REQUEST**

Licensee: Catawba Nuclear Plant

Docket Numbers: 05000413, 05000414

Inspection Dates: November 5 - 9, 2012

Inspection Procedures: 71124.03 In-Plant Airborne Radioactivity Control and Mitigation  
71124.04 Occupational Dose Assessment  
71124.05 Radiation Monitoring Instrumentation

Documentation is requested from August 1, 2011, to present for IP 71124.04 (Occupational Dose Assessment), and October 1, 2010, to present for IPs 71124.03 (In-Plant Airborne Radioactivity Control and Mitigation) and 71124.05 (Radiation Monitoring Instrumentation)

We would prefer as much of the information as possible in electronic form. An index to the contents is also helpful. For those items requesting a list of documents/areas, the inspectors will select documents/areas from the list for on-site review. If any of the requested information is too burdensome to provide electronically or as hard copies, simply indicate that the requested material is available for on-site review by the inspectors.

If you have any questions, please call Wade Loo at (404) 997-4727. Thank you in advance for all your effort in putting together this material.

### **Assistance Requested During On-Site Inspection**

- Identification of work activities during the inspection for inspector observations, including notification of radiation monitoring instrument calibrations.
- Health physics assistance in plant walkdowns assessing radiation monitoring instrumentation and respiratory protective equipment.
- Discussions with appropriate individuals regarding dose assessments, radiation monitoring equipment, and respiratory protective equipment.

### **General Information Request**

- Telephone numbers of contacts.
- Radiation Protection organizational chart.
- Electronic copy of applicable chapters of UFSAR. (e.g., radiation protection program, etc.)
- Corrective Action Program (CAP) procedures.

Enclosure

- Audits and self-assessments performed since the last inspection that encompass the areas of (1) Dose assessment, (2) Dosimetry, (3) radiation monitoring instrumentation, and respiratory protective equipment.
- List of Site and Corporate radiation protection procedures.

#### **71124.03: In-Plant Airborne Radioactivity Control and Mitigation**

- Site and corporate procedures/manuals associated with airborne radiation monitoring instrumentation and respiratory protection. Procedures/manuals should include:
  - Operation, calibration, and maintenance of air sampling instrumentation, including set-point determination (e.g., low-vols, high vols, goosenecks, AMS 4s, etc.)
  - Calibration and maintenance of portable instruments
  - Actions to be taken when air sampling instrumentation is found to be significantly out of tolerance/calibration
  - Issuance and use of respiratory protective equipment
  - Training, including fit-testing, for use of SCBA and supplied-air systems
  - SCBA maintenance activities, including vital components (i.e., regulators)
  - Determination/verification of Grade D air for SCBA
- Two most recent calibrations for the following CAM equipment:
  - Control Room Ventilation
  - Spent Fuel Pool
  - Radioactive Waste Processing
- Records of certification of air quality for equipment used to provide breathing air for air-supplied respirators, and SCBA bottles since the last inspection.
- List of corrective action reports generated since the last inspection involving radiation monitoring and protective equipment deficiencies; including the following:
  - Continuous air monitors
  - Respiratory protection equipment and program implementation.
- Available for on-site review by inspector during inspection:
  - Inventory, inspection, and maintenance records for SCBA equipment
  - Training records, including fit-testing, for SCBA-qualified individuals
  - Training records/certification for individuals qualified to perform maintenance on vital components (e.g., regulators) on SCBA

#### **71124.04: Occupational Dose Assessment**

- Site and corporate procedures/manual associated with internal and external dosimetry program (e.g., Whole body counters, TLDs, electronic dosimeters, bioassays, declared pregnant workers, neutron monitoring, multi-badging, etc.).

- NVLAP accreditation for dosimetry used to monitor personnel.
- Last calibration of Whole Body Counter (WBC) equipment and copy of the analysis library.
- Two most recent calibrations for PCMs used to monitor employees prior to issuance and return of dosimetry.
- Correction factors used to address the response of electronic dosimeters as compared to TLDs.
- Internal dose assessments since last outage inspection using in-vitro monitoring.
- Internal dose assessments for any actual internal exposure greater than 10 millirem CEDE since the last outage inspection.
- Skin dose assessments since the last outage inspection.
- Available for on-site review during the inspection: Records for declared pregnant workers since the last outage inspection, listing their monthly radiation exposure during the term or year-to-date.
- List of CAP PIP reports generated since the last inspection involving internal and external dosimetry issues (e.g., adverse trends related to EDs, occupational dose assessments, etc.).

#### **71124.05: Radiation Monitoring Instrumentation**

Copies of the CY 2010, and CY 2011 ARERR documents *[Note: provided as part of the General Information Request and duplication is not required]*.

- Provide Procedures/Guidance Documents for:
  - use of portable instrument calibrators
  - calibration and functional test/source checks of portable radiation detection instrumentation
  - Calibration and functional tests of small article monitor (SAM), personnel contamination monitors (PCM), portal monitor (PM), and whole body counting (WBC) equipment; for area radiation monitor (ARM) and continuous air monitor (CAM) equipment.
  - determination of set-points for ARM, CAM, PCM, PM, and SAM equipment used for area and personnel monitoring equipment, as applicable
  - collection and analysis of high-range, post accident iodine, and effluent samples
- Provide a list of in-service SAM, PCM, PM, and WBC equipment *[Note: The list will be used to select 3 to 5 monitors for evaluation of their calibration/functional check surveillances during the on-site inspection. In addition, portable radiation detection instrumentation will be selected at random to evaluate adequacy of calibrations.]*

- Provide the previous two sets of calibration data for the following effluent monitors: main stack radiation monitor, liquid process radiation monitor, and Unit 1 reactor building ventilation monitor.
- Provide the previous two sets of calibration data for the following monitors:
  - Common plant vent radioactive discharge
  - Containment Airborne Radioactivity (Both Units)
  - Control room ventilation radiation monitors
  - Containment High Range Area Radiation Monitors (CHRMS) (Both Units)
- Copies of all audits, self-assessments, and/or reviews of area and personnel monitoring equipment, and portable radiation survey instruments generated since October 2010. The records should include any reviews conducted of vendor facilities, (e.g., outside calibration laboratories).
- Provide a list of Condition Report (CR) documents generated since October 2010, for gaseous and liquid effluent monitoring activities, for ARM and/or CAM operability issues, effluent monitoring equipment or monitoring activities; and for the release of licensed material outside of the RCA.

Inspector Contact Information

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