



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

November 4, 2014

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

**SUBJECT: CATAWBA NUCLEAR STATION, NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION 05000413 AND 05000414**

Dear Mr. Henderson:

From January 26 – 30, 2015, the U.S. Nuclear Regulatory Commission (NRC) will perform the baseline public Radiation Safety Inspection at the Catawba Nuclear Station for NRC Inspection Procedures 71124.06, 71124.07, and 71151. 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 onsite 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 onsite portions of the inspection. The NRC requests that the material be available for review January 5, 2015.

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. If there are any questions about this inspection or the material requested, please contact the lead inspector, Wade Loo at 404-997-4727.

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 number 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.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public inspections, exemptions, requests for withholding," 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 Agencywide Documents Access and Management System (ADAMS); accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

Docket Nos. 50-413 and 50-414
License Nos. NPF-35 and NPF-52

Enclosure:
Pre-Inspection Document Request
Occupational Radiation Protection Inspection

cc: Distribution via Listserv

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ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRS/PSB1	RII:DRS/PSB1					
SIGNATURE	WTL via email	BRB1					
NAME	W. Loo	B. Bonser					
DATE	11/ 3 /2014	11/ 4 /2014					
E-MAIL COPY	YES NO	YES NO					

**PRE-INSPECTION DOCUMENT REQUEST
PUBLIC RADIATION PROTECTION INSPECTION**

Public and Public Radiation Safety Cornerstones

Licensee: Catawba Nuclear Plant
Docket Numbers: 05000413 and 05000414
Inspection Dates: January 26 – 30, 2014

Inspection Procedures to be performed:

71124.06 Radioactive Gaseous and Liquid Effluent Treatment
71124.07 Radiological Environmental Monitoring Program
71151 Performance Indicator Verification (Radiation Safety Cornerstones)

Documentation is requested from February 1, 2013, to present. However, information for Inspection Procedure (IP) 71151 is requested from June 1, 2014, to present.

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 onsite 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 onsite 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 Onsite Inspection

- Assistance in plant walkdowns of the solid and liquid radwaste processing systems.
- Schedule of when Radiological Environmental Monitor Program (REMP) run is done to coordinate when we arrive for inspection of that program area.

General Information Request

- Telephone numbers of contacts.
- Radiation Protection (RP) organizational chart.
- Corrective Action Program (CAP) procedures.
- Audits and self-assessments performed since the last inspection that encompasses the areas of (1) liquid and solid radwaste processing, and (2) REMP program.
- List of RP procedures.

Enclosure

- Procedure(s) for identifying, notification, tracking, and correcting performance indicator (PI) occurrences.
- List of all PIs, and copies of associated corrective action reports for Occupational Exposure Control Effectiveness and Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual (RETS/ODCM) Radiological Effluent Occurrences.

71124.06 Radioactive Gaseous and Liquid Effluent Treatment

- Provide site and/or corporate procedures associated with implementing the effluents and the groundwater monitoring program. Procedures should include those that address:
 - Effluent sampling
 - Effluent monitor set-point determinations
 - Dose calculations
 - Groundwater monitoring and reporting of spills/leaks
 - Methodology for determining effluent stack/vent flow rates
- Annual Radiological Effluent Release Reports (ARERRs) for CYs 2012 and 2013.
- ODCM and a list of changes made in the last revision.
- List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since February 1, 2013. If applicable, provide the licensee event report (LER), event report, and/or special report.
- List of non-radioactive systems that have become contaminated and any 10 CFR 50.59 evaluations performed (data since February 1, 2013).
- List of any changes to the effluent release points, or effluent treatment systems, and associated 50.59 documentation (data since February 1, 2013).
- Material condition surveillance records for effluent system components not readily accessible, including those inaccessible due to radiological conditions.
- Effluent release permits for continuous gaseous, batch gaseous, continuous liquid, and/or batch liquid releases. Only provide permits for last releases within each category.
- Results of inter-laboratory comparison program for count lab for CY 2012, to 2013 YTD.
- The last two surveillance results for engineered safety feature (ESF) ventilation systems (e.g., system flow, HEPA, and charcoal filter tests).
- List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 1 day since February 1, 2013, including any special reports submitted to the NRC as a result of effluent monitor operability.

- Groundwater monitoring results since February 1, 2013.
- List of changes to written ground water monitoring program for identifying/controlling contaminated spills/leaks since February 1, 2013.
- List of onsite surface water bodies (e.g., ponds, retention basins, lakes) that contain, or potentially contain, radioactivity.
- List of CAP problem investigation processes (PIPs) and audit documents generated since February 1, 2013, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program.

71124.07 Radiological Environmental Monitoring Program

- Site and corporate procedures associated with radiological environmental monitoring, including:
 - Collection, preparation, and analysis of environmental samples including air samples, Thermoluminescent Dosimeter (TLD) stations, ground and surface water, sediment, vegetation, milk, fish, etc.
 - Calibration and maintenance of air/water sampling equipment.
 - Calibration and quality control (QC) activities for sample counting instruments.
 - Sampling and monitoring program to detect leaks from contaminated or potentially contaminated systems, structures or components (SSCs).
 - Meteorological instrument calibration, operation, and routine surveillances.
- Annual Radiological Environmental Operating Report (AREORs) CYs 2012, and 2013.
- List of SSCs that contain, or could contain, licensed material for which there is a credible mechanism for the radioactive material (RAM) to reach ground water.
- Summary of leaks and/or spills since February 1, 2013, (i.e., additions to the 50.75(g) file.
- Calibration and maintenance records for REMP air and composite water samplers since February 1, 2013.
- Inter-laboratory comparison program results for the past 2 years (in-house or vendor laboratory).
- Most recent audit of vendor lab used to process REMP samples.
- Last two calibration/surveillance/maintenance records for the meteorological monitoring instruments since February 1, 2013.

- List of CAP PIPs and audit documents generated since February 1, 2013, related to environmental monitoring activities.

IP 71151 Performance Indicator Verification

- Monthly/Quarterly PI reports since June 1, 2014, and copies of associated Condition Report documents for any Occupational Exposure or RETS/ODCM Radiological Effluent PI events occurrences.
- Liquid and gaseous effluent release permits which specify the quarterly and annual CYs 2013, and 2014 year-to-date, curies released by isotope, and associated public dose assessments.
- List of all PIP documents since June 1, 2014, using keywords such as high radiation area (HRA), locked high radiation area (LHRA), very high radiation area (VHRA), unintended dose, unlocked LHRA door, etc.
- List of all CAP documents since June 1, 2014, using keywords abnormal/ unmonitored effluent release, etc.
- List of all electronic dosimeter (ED) dose rate alarms, and all ED dose alarms since June 1, 2014.

Inspector Contact Information

Mr. Wade Loo
404-997-4727
wade.loo@nrc.gov

Mailing Address

U.S. Nuclear Regulatory Commission, Region II
Attention: Mr. Wade Loo
245 Peachtree Center Ave., NE
Suite 1200
Atlanta, GA 30303

LIST OF ACRONYMS

AREORs	Annual Radiological Environmental Operating Reports
ARERRs	Annual Radiological Effluent Release Reports
CAP	Corrective Action Program
ED	Electronic Dosimeter
ESF	Engineered Safety Feature
HRA	High Radiation Area
IP	Inspection Procedure
LER	Licensee Event Report
LHRA	Locked High Radiation Area

ODCM	Offsite Dose Calculation Manual
OOS	Out-of-Service
PIs	Performance Indicators
PIPs	Problem Investigation Processes
QC	Quality Control
RAM	Radioactive Material
REMP	Radiological Environmental Monitor Programs
RETS/ODCM	Radiological Effluent Technical Specifications/Offsite Dose Calculation manual
RP	Radiation Protection
SSCs	Systems, Structures, or Components
TLD	Thermoluminescent Dosimeter
VHRA	Very High Radiation Area