



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

March 14, 2017

Mr. Robert T. Simril  
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**

Dear Mr. Simril:

During the week of May 8 - 12, 2017, the Nuclear Regulatory Commission (NRC) will perform a baseline Radiation Safety Inspection at Catawba Nuclear Station, (NRC Inspection Procedures 71124.01 and 71124.08). 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 activity. It is important that all of these documents are up to date and complete, thereby minimizing the number of additional documents requested during the preparation and/or the onsite portions of the inspection. The NRC requests that these documents be provided to the inspectors in CD/DVD format on or before April 18, 2017.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Sherry Andrews 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, or the Plant Support Branch 1 Chief, Brian Bonser, at (404) 997-4653.

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 3150-0008, 3150-0011, 3150-0014, 3150-0044, and 3150-0135. 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 "Agency Rules of Practice and Procedure," 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

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

Enclosure:  
Pre-Inspection Document Request

cc: Distribution via Listserv

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

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SIGNATURE	<b>WTL</b>	<b>BRB1</b>					
NAME	LOO	BONSER					
DATE	3/14/2017	3/14/2017					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

## Pre-Inspection Document Request

### Occupational and Public Radiation Safety Cornerstone

Inspection Dates: May 8 – 12, 2017

Documents Due to Region II by: April 18, 2017

Licensee: Catawba Nuclear Station

Docket Numbers: 05000413, 414

Inspection Procedures: IP 71124.01 Radiological Hazard Assessment and Exposure Controls  
IP 71124.08 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation

Lead Inspector: Wade Loo, Sr. Health Physicist

**Note:** The current version of these documents is expected unless specified otherwise. Electronic media is preferred if readily available. *[Note that the inspectors cannot accept data provided on USB or "flash" drives due to NRC IT security policies.]* Please organize the information as it is arranged below to the extent possible. Experience has shown that a poorly organized CD leads to a less efficient inspection, and places additional burden on licensee staff. Pay particular attention to the date ranges for the items requested, as they may change from item to item. If there are questions regarding the documents requested, or if the documents cannot be provided by the due date, please do not hesitate to contact the lead inspector.

#### Miscellaneous

1. List of primary contacts for each inspection area including names and telephone numbers
2. Plant Management, Radiation Protection, and Chemistry organizational charts w/ contact numbers.
3. List of radiation protection procedures, including title and number.
4. Corrective action program (CAP) procedure

#### 71124.01 Radiological Hazard Assessment and Exposure Controls

1. List of active Radiation Work Permits (RWPs), including their administrative limits, electronic dosimeter dose rate limit, and dose limit. This list should include associated outage RWPs as well.
2. Timeline of major outage activities (e.g., Gantt chart or similar list).
3. List of locations, or plant maps indicating the location, of all LHRAs and VHRAs. Include areas with the potential to become a LHRA during routine operations or outages.
4. Most recent survey of Independent Spent Fuel Storage Installation (ISFSI) areas.
5. Most recent survey of all Locked HRAs and VHRAs (as applicable).

Enclosure

6. Procedures related to HP controls (e.g. Posting, labeling, surveys, RWPs, contamination control, HRA/LHRA/VHRA control, key control, control of divers, special controls during fuel offload, hot spots, etc.).
7. Procedures related to release of personnel and materials (e.g. release surveys, decontamination, guidance for alarm follow up, etc.).
8. List of Nationally Tracked Sources, change of ownership and copies of any National Source Tracking System (NSTS) transaction documentation (e.g., annual reconciliation).
9. Most recent sealed source inventory record.
10. List of all non-fuel items stored in spent fuel pool.
11. All self-assessments and audits covering HP controls since October 1, 2016.
12. List of CAP nonconformance reports (AR, CR, NCR, etc.) related to HP controls (e.g. keyword searches for radworker error, HP technician error, posting issues, HRA/LHRA/VHRA issues, survey problems, etc.) issued since October 1, 2016. This should include CAP nonconformance reports where the cause was listed as human performance. [*This should be a list of corrective action documents containing an (AR, CR, NCR, etc.) number and brief description, not full documents.*]
13. All CAP nonconformance reports (AR, CR, NCR, etc.) related to Nationally Tracked Sources since October 1, 2016.

#### 71124.08 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation

1. Provide Procedures/Guidance Documents describing licensee compliance with 10 CFR Parts 20, 61, and 71, and 49 CFR Parts 170-189. Procedures/manuals should include:
  - Solid and liquid radwaste processing procedures.
  - Procedure(s) for transferring radioactive waste resin and sludge discharges into shipping/disposal containers.
  - Waste stream mixing and/or sampling procedures, including: (1) waste concentration averaging; (2) use of scaling factors and calculations used to account for difficult-to-measure radionuclides; and (3) ensuring waste stream composition data accounts for changing operational parameters.
  - Shipping/transportation procedures.
  - Cask loading and closure procedures (licensee and vendor) applicable to last three cask transports.
  - List of radioactive material (RAM) storage areas, including satellite radiological controlled areas (RCAs).
  - Monitoring impact of long-term storage (e.g., buildup of gases produced by waste decomposition, chemical reactions, container deformation, loss of container integrity, rerelease of free-flowing water).
  - Process Control Program (PCP).
2. Most recent radio-chemical sample analysis results (i.e., "10 CFR Part 61" analysis) for each of the radioactive waste streams (e.g., dry active waste (DAW), ion exchange resins, mechanical filters, and sludges and activated materials).

3. List and documentation of any changes made to the radioactive waste processing systems (liquid and solid) and/or the PCP since the March 1, 2015, and associated 10 CFR 50.59 documentation, as appropriate.
4. Copies of applicable transport cask Certificate of Compliance for the last three transport cask shipments.
5. Training and qualification records for personnel responsible for radioactive waste processing and RAM shipment preparation activities.
6. Log of RAM shipments (LSA I, II, III; SCO I, II, Type A, or Type B) since March 1, 2015. (The inspectors will select three to five packages to review in detail.)
7. Most recent self-assessment or audit of Shipping/radwaste processing and RAM storage programs.
8. List of CAP NCRs (AR, CR, NCR, etc.) related to involving radioactive waste and RAM processing and/or transportation (e.g., keyword searches for RAM, shipping, radwaste, 10 Part 61, etc.) issued since March 1, 2015. *[This should be a list of corrective action documents containing an (AR, CR, NCR, etc.) number and brief description, not full documents.]*
9. Available for onsite review during the inspection:
  - Site drawing(s) showing the location of all stored RAMs and all stored radioactive waste.
  - Plant drawings sufficient to permit the inspector to walkdown the liquid and solid radioactive waste processing systems, to verify current system configuration/operation agree with the descriptions contained in the Updated Final Safety Analysis Report and in the PCP.
  - Documentation describing the status of any radioactive waste process equipment that is not operational and/or is abandoned in place.
  - Information concerning the site's waste disposal volume and waste reduction program.
  - Training and qualification records for personnel responsible for radioactive waste.
  - Training curriculum and primary lesson plans for qualifying persons, including vendors, for radwaste processing, packaging, and making shipments of RAM and radioactive waste as specified by 49 CFR Part 172

#### Assistance Requested During On-Site Inspection

- Identification of work activities available during the inspection for inspector observations, including notification of pre-job briefings, notification of risk significant work activities, and audio/visual surveillance for remote job coverage
- Health physics assistance in plant walk-downs assessing access controls, e.g. verifying the posting and locking of entrances to high and very high radiation areas (HRA and VHRA), and SFP controls.
- Health physics assistance in plant walk-downs/job coverage of ongoing activities to assess access controls.
- Health physics assistance in plant walk-downs of radwaste processing systems.

- Identification of any transportation activities available during the inspection for inspector observations.

Inspector Contact Information:

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