



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

April 21, 2016

Scott Batson
Vice President, Oconee Nuclear Station
Duke Energy Corporation
7800 Rochester Highway
Seneca, SC 29672-0752

**SUBJECT: OCONEE NUCLEAR STATION - NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION**

Dear Mr. Batson:

During the week of June 6 – 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) will perform a baseline Occupational and Public Radiation Safety inspection at the Oconee Nuclear Station, (NRC Inspection Procedures (IPs) 71124.06, Radioactive Gaseous and Liquid Effluent Treatment; 71124.07, Radiological Environmental Monitoring Program; and Radiation Safety Sections of 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 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 May 20, 2016.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Robert Meixell (864) 873-3279 of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector Robert Kellner at (404) 997-4508, 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 Nos. 50-269, 50-270, and 50-287
License Nos. DPR-38, DPR-47, and DPR-55

Enclosure:
Pre-Inspection Document Request

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Enclosure:
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☒ PUBLICLY AVAILABLE

☐ NON-PUBLICLY AVAILABLE

☐ SENSITIVE

☒ NON-SENSITIVE

ADAMS: ☒ Yes ACCESSION NUMBER: _____

☐ SUNSI REVIEW COMPLETE ☐ FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	RXK3	BRB1					
NAME	RKELLNER	BBONSER					
DATE	4/20/2016	4/21/2016	4/ /2016	4/ /2016	4/ /2016	4/ /2016	4/ /2016
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRSI\PSB1\RFI INFORMATION REQUEST
LETTERS\OCONEE\2016\OCONEE_2016002_PSB1_RP_DOC REQUEST_DRAFT.DOCX

Pre-Inspection Document Request

Occupational and Public Radiation Safety Cornerstones

Inspection Dates: June 6 – 10, 2016

Documents Due by: May 20, 2016

Licensee: Oconee Nuclear Station

Docket Number(s): 05000269, 05000270, and 05000287

Inspection Procedures (IPs): 71124.06	Radioactive Gaseous and Liquid Effluent Treatment
71124.07	Radiological Environmental Monitoring Program
71151	Performance Indicator Verification

Note: Unless specified otherwise, the current version of these documents is expected. Electronic media is preferred if readily available (The preferred file format is MSWord, or searchable “.pdf” files on CDROM). Note that the inspectors cannot accept data provided on USB or “flash” drives due to NRC IT security policies. To the extent possible, please organize the information in the order shown below. Experience has shown that a poorly organized CD leads to a less efficient inspection and places additional burden on licensee staff. If there are questions regarding the documents requested, please do not hesitate to contact the lead inspector.

Documentation is requested from June 2014 to the present for Inspection Procedures (IPs) 71124.06 and 71124.07, and from October 2015 to the present for IP 71151. This reflects the last time these areas were inspected. We would prefer as much of the information as possible in electronic form. An index to the CD contents is also helpful. For those items requesting a list of documents/areas, the inspector will select documents/areas from the list for on-site review.

If you have any questions, please call Robert Kellner at (404) 997-4508. Thank you in advance for your effort in putting together this material.

Assistance Requested During Onsite Inspection

- Advance notification of any liquid or gaseous effluent releases, including the associated pre-release sampling, analysis, and permit generation.
- Assistance in plant walkdowns of the liquid and gaseous effluent systems.
- Assistance in plant walkdowns of the liquid and gaseous effluent radiation monitoring instrumentation.
- Assistance with walkdowns of meteorological equipment.
- Assistance with observations of Radiological Environmental Monitoring Programs (REMP) sample collection and processing.

Enclosure

General Information Request

- List of primary site contact(s) for each inspection area including name(s) and telephone numbers.
- List of radiation protection procedures, including title and number. Plant Management, Radiation Protection, and Chemistry organizational charts w/ contact numbers.
- All revisions of the Offsite Dose Calculation Manual (ODCM) in use from June 2014 to the present.
- 2015 Annual Radiological Effluents Release Report (ARERR).
- 2015 Annual Radiological Environmental Operating Report (AREOR).
- Most recent dry active waste (DAW) 10 CFR Part 61 analytical results.
- Corrective Action Program procedures.
- Audits and self-assessments performed since June 2014 that encompass the areas of (1) the REMP program and implementation, (2) gaseous and liquid effluent monitoring program, and (3) gaseous and liquid effluent monitoring instrumentation (installed, and counting room instruments).

71124.06 Radioactive Gaseous and Liquid Effluent Treatment

Provide the following documentation:

- Procedures/Guidance Documents for:
 - a) Collection, analysis, release, and dose evaluations for gaseous and/or liquid effluents, including guidance for both batch and continuous modes
 - b) Determination of set-points for main plant gaseous and liquid effluent discharge pathways
 - c) Effluent radiation monitor alarm setpoint bases and calculational methods
 - d) Effluent radiation monitor calibration and source checks
 - e) Countroom High Purity Germanium Detector calibration and QC checks
- List of any significant changes to the ODCM since June 2014.
- List of significant changes to the radioactive effluent processing systems since June 2014.
- List of any non-radioactive systems that have become contaminated since June 2014.
- List of any abnormal gaseous or liquid releases identified since June 2014.
- List of 10 CFR 50.75(g) entries made since June 2014.
- Provide copies of the last gaseous and liquid effluent release permits completed in 2015 showing the collective quarterly and annual offsite dose.
- System health reports for radiological effluent/process monitoring systems since June 2014.
- List of the main liquid and gaseous effluent pathway process monitors listed as out-of-service (OOS) since June 2014. *[Note do not include monitors listed as OOS for less than 24 hours.]*
- List of significant changes to the effluent monitoring program since June 2014, as documented within the ODCM.

- Inter-laboratory comparison program results (onsite count room) since June 2014.
- Last two surveillance test results for Spent Fuel Pool Ventilation, and the Unit 3 Reactor Building Purge System, including flow monitoring instrument calibration. If alternate source term has not been adopted, include last set of charcoal surveillances.
- Copies of audits, self-assessments, and/or reviews of liquid and gaseous effluent monitoring program activities since June 2014. The data should include any reviews conducted of vendor activities and their facilities.
- List of corrective action reports generated since June 2014 and/or release activities including Engineered Safety Feature (ESF) ventilation systems. *[Note: Only titles/summary statement should be provided for use by the inspectors to select a sample of issues for in-depth review.]*
- List of corrective action reports generated since June 2014, as a result of gaseous and liquid effluent processing and/or release activities. *[Note: Only titles/summary statement should be provided for use by the inspectors to select a sample of issues for in-depth review.]*
- The most recent calibration record for the following radiation monitors:
 - a) 1RIA-47, 48, 49 – Reactor Building Particulate, Iodine, and Gas
 - b) 1RIA-32 – Aux. Bldg. Gas Monitor
 - c) RIA-37, 38 – Waste Disposal Gas (Normal and High)
 - d) 1RIA-43, 44, 45, 46 – Unit Vent Particulates, Iodine, and Gas (Normal)
 - e) 4RIA-45 – Radwaste Facility Vent (Normal)
 - f) RIA-33 – Liquid Waste (Normal)
 - g) High Purity Germanium Detector No. 2
- Documentation for the radioactive sources used to calibrate the above requested monitors showing traceability to a national standard, National Institute of Standards and Technology (NIST), and traceability to the primary calibration, as applicable.
- List of corrective action reports generated since June 2014 related to effluent and process monitors, and the effluent analysis lab including cross-check analysis and QC checks.

71124.07 Radiological Environmental Monitoring Program

Provide the following documentation:

- Groundwater monitoring results since June 2014.
- Procedures/Guidance Documents for:
 - a. collection and analysis of environmental samples
 - b. calibration and maintenance of REMP air and/or water samplers
 - c. calibration of meteorological monitoring instrument loop (wind speed & direction, air temperature sensors currently in use)
 - d. monthly/quarterly meteorological instrumentation surveillance requirements (control room and local tower activities)
- Records since June 2014 for:
 - a. calibrations of REMP air and water sampling equipment (as applicable)
 - b. meteorological monitoring instrument calibrations (wind speed & direction, air temperature)

c. detailed inter-laboratory comparison program results

- Copies of all audits, self-assessments, and/or reviews of REMP activities. The data should include any reviews conducted of vendor activities and their facilities.
- List of systems, structures, or components (SSCs), identified as credible mechanism(s) having the potential for release of licensed material to the groundwater environs.
- List of significant REMP changes documented within the ODCM since June 2014.
- List of corrective action reports generated as a result of REMP activities since June 2014.
[Note: Only titles/summary statement should be provided for use by the inspectors to select a sample of issues for in-depth review.]

71151 – Performance Indicator (PI) Verification

- Site and corporate procedures/manuals for gathering and reporting performance indicator (PI) data.
- Monthly/Quarterly PI reports since October 2015, and copies of associated condition reports for any RETS/ODCM Radiological Effluent occurrences.
- End of calendar year (CY) 2015 liquid and gaseous effluent release permits which specify the monthly, quarterly, and annual curies released by isotope, and associated public dose assessments.
- List of all corrective action reports generated since October 2015, using keywords such as: RETS/ODCM, offsite dose, effluent release, abnormal/unmonitored effluent release, etc.

Inspector Contact Information:

Robert Kellner
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Mailing Address

U. S. Nuclear Regulatory Commission
Region II
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Suite 1200
Atlanta, GA 30303-1257

LIST OF ACRONYMS

AREORs	Annual Radiological Environmental Operating Reports
ARERRs	Annual Radiological Effluent Release Reports
DAW	Dry Active Waste
IP	Inspection Procedure
ODCM	Offsite Dose Calculation Manual
OOS	Out of Service
PI	Performance Indicators
PIP	Problem Investigative Process
REMP	Radiological Environmental Monitoring Programs
RETS/ODCM	Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual
SSCs	Systems, Structure or Components
UFSAR	Updated Final Safety Analysis Report