



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

May15, 2013

Mr. Steven D. Capps  
Site Vice President  
Duke Energy Corporation  
McGuire Nuclear Station  
MG01VP/12700 Hagers Ferry Road  
Huntersville, NC 28078

**SUBJECT: MCGUIRE NUCLEAR PLANT - NOTIFICATION OF INSPECTION AND  
REQUEST FOR INFORMATION**

Dear Mr. Capps:

During the week of July 8-12, 2013, the Nuclear Regulatory Commission (NRC) will perform a baseline Radiation Safety Inspection at the McGuire Nuclear Plant (NRC Inspection Procedures 71124.06, 71124.07, and Radiation Safety Sections of 71151). 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 activity. The NRC requests that these documents be provided to the inspectors no later than June 21, 2013.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Kay Lovingood Crane, Senior Licensing Specialist, of your organization. If there are any questions about this inspection, or the material requested, please contact the lead inspector, Jonathan Rivera, at (404) 997-4646, 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 3150-0044, 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.

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Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

**/RA/**

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

Docket No.: 50-369, 50-370  
License No.: NPF-9, NPF-17

Enclosure:  
Pre-Inspection Document Request

cc: (See page 3)

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Sincerely,

**/RA/**

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

Docket No.: 50-369, 50-370  
License No.: NPF-9, NPF-17

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Pre-Inspection Document Request

cc: (See page 3)

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### **Pre-Inspection Document Request**

Inspection Dates: July 8-12, 2013

Documents Due to Region II by: June 21, 2013

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

Lead Inspector: Jonathan Rivera  
Health Physicist  
US NRC Region II  
(404) 997-4646  
Jonathan.Rivera@nrc.gov

**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 the Nuclear Regulatory Commission (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, please do not hesitate to contact the lead inspector.

### **General Information Request**

1. List of primary contacts for each inspection area below, w/phone numbers.
2. Plant and Radiation Protection organizational charts.
3. Electronic copy of applicable chapters of UFSAR (e.g. radiation protection program, etc.).
4. Corrective action program procedures.
5. Most recent 10 CFR 61 results for the DAW waste stream.
6. Procedure for gathering and reporting NRC PI data.

### **71124.06 - Radioactive Gaseous and Liquid Effluent Treatment**

1. 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
2. Offsite Dose Calculation Manual (ODCM) and a list of changes made in the last revision.
3. ARERRs for CYs 2011 and 2012.

Enclosure

4. List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 1 day since June 1, 2011, including any special reports submitted to the NRC as a result of effluent monitor operability.
5. List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since June 1, 2011. If applicable, provide the LER, event report, and/or special report.
6. List of non-radioactive systems that have become contaminated and any 10 CFR 50.59 evaluations performed, since June 1, 2011.
7. List of any changes to the effluent release points or effluent treatment systems and associated 50.59 documentation, since June 1, 2011.
8. Material condition surveillance records for effluent system components not readily accessible, including those inaccessible due to radiological conditions.
9. Effluent release permits for continuous gaseous, batch gaseous, continuous liquid, and/or batch liquid releases. Only provide permits for last releases within each category.
10. Results of inter-laboratory comparison program for the count lab since June 1, 2011.
11. Last two surveillance results for the ESF ventilation systems (e.g. system flow, HEPA, and charcoal filter tests).
12. Groundwater monitoring results since June 1, 2011.
13. List of changes to the written groundwater monitoring program for identifying/controlling contaminated spills/leaks since June 1, 2011.
14. List of onsite surface water bodies (e.g. ponds, retention basins, lakes) that contain or potentially contain radioactivity.
15. List of CAP PIPs generated since June 1, 2011 related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program.
16. Audit and self-assessment documents generated since June 1, 2011 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 (REMP)

1. Collection schedule for REMF samples during the week of inspection.
2. Site and corporate procedures associated with radiological environmental monitoring, including:
  - a) collection, preparation, and analysis of environmental samples, including air, TLD stations, ground and surface water, sediment, vegetation, milk, fish, etc.
  - b) calibration and maintenance of air and water sampling equipment.
  - c) calibration and QC activities for sample counting instruments.

- d) sampling and monitoring program to detect leaks from contaminated or potentially contaminated systems, structures, or components.
  - e) calibration, operation, maintenance, and routine surveillances of meteorological monitoring instruments (wind speed & direction, air temperature, etc.).
3. AREORs for CYs 2011 and 2012.
  4. List of structures, systems, or components that contain or could contain licensed material for which there is a credible mechanism for the radioactive material to reach ground water.
  5. Summary of leaks and/or spills since June 1, 2011, i.e. additions to the 50.75(g) file.
  6. List of changes to the REMP (sample locations, sample frequency, type of samples, etc.) since June 1, 2011.
  7. Calibration and maintenance records for REMP air and composite water samplers since June 1, 2011.
  8. Inter-laboratory comparison program results since June 1, 2011 (in-house or vendor laboratory).
  9. Last two calibration/surveillance/maintenance records for the meteorological monitoring instruments since Jun 1, 2011 (wind speed, wind direction, and air temperature).
  10. Results of TLD environmental monitoring since the last inspection.
  11. List of CAP PIPs generated since June 1, 2011 related to REMP. The data should include any reviews conducted of vendor activities and their facilities (e.g. environmental lab).
  12. Audit and self-assessment documents generated since June 1, 2011 related to REMP. The data should include any reviews conducted of vendor activities and their facilities (e.g. environmental lab).

#### 71151 – Performance Indicator Verification

1. Monthly/Quarterly PI reports and copies of associated CAP documents, for Occupational Exposure Control Effectiveness and RETS/ODCM Radiological Effluent Occurrences since October 1, 2012.
2. Procedure(s) for identifying, notification of, tracking, and correcting PI occurrences.
3. Liquid and gaseous effluent release permits since October 1, 2012 which specify the quarterly and annual curies released by isotope and associated public dose assessments.
4. List of all CAP documents since October 1, 2012, using keywords such as: HRA, LHRA, VHRA, unintended dose, unlocked LHRA door, etc.
5. List of CAP documents since October 1, 2012, using keywords such as: abnormal unmonitored effluent release, etc.

6. List of all electronic dosimeter (ED) dose rate alarms and all ED dose alarms since October 1, 2012
7. Audit and self-assessment documents generated since October 1, 2012 related to PIs.