



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

July 28, 2006

Duke Energy Corporation
ATTN: Mr. G. R. Peterson
Vice President
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

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

Dear Mr. Peterson:

During the periods of September 18 - 22, and October 2 - 6, 2006, the NRC will conduct baseline radiation safety inspection activities at the McGuire Nuclear Station. The inspection will focus on the Occupational Radiation Safety Inspection cornerstone using NRC Inspection Procedures (IPs) 71121.01, 71122.02, and 71122.02; and will include the Radiation Safety sections of IPs 711551 and 60855.1. The inspectors also will review activities associated with detecting, evaluating, and documenting abnormal liquid releases which could impact both onsite and offsite environments as outlined in selected sections of IP 71122.01.

Experience has shown that this inspection is resource intensive both for the NRC inspectors and your staff. In order to minimize the impact to your on-site resources and to conduct 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 lead inspector has scheduled a three day pre-inspection visit with your staff for the August 28 - 31, 2006 period. The requested material will be reviewed and collected at that time.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Ms. Kay Crane of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, George B. Kuzo at (404) 562-4658.

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

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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).

Sincerely,

/RA By George Kuzo For/

Robert C. Haag, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket Nos. 50-369, 50-370, and 720038
License Nos. NPF-9, NPF-17

Enclosure: Occupational Radiation Protection Inspection Document Request

cc w/encl: See next page

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cc w/encl:

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**OCCUPATIONAL RADIATION SAFETY CORNERSTONE INSPECTION
INFORMATION REQUEST**

SITE: McGuire Nuclear Station (MNS) Rpt. 05000369,370/2006005; 0720038/200600002

PRE-INSPECTION VISIT: August 28-30, 2006

INSPECTION DATES: August 28-30 2006, (ISFSI); Sept 18-22, and Oct 02-06, 2006

NRC INSPECTORS: George B. Kuzo, GBK1@NRC.GOV (404) 562-4658
N. Jeff Griffis, NJG1@NRC.GOV (404) 562-4737

IDENTIFIED LICENSEE CONTACTS: Radiation Controls - Steve Mooneyhan, RPM 704 875-4646/ William Osborn (4245); ALARA - Bret Sherrill (4096); Radwaste - Bob Beckham (4652); Effluents/REMP - Harry Sloane (4671); and Licensing/Compliance - Kay Crane (4306)

Inspection Procedures:	IP 71121.01	Access Control To Radiologically Significant Areas
	IP 71121.02	ALARA
	IP 71122.02	Radioactive Material Processing and Transportation
	IP 71122.01	Radioactive Gases and Liquid Effluent Treatment & Monitoring Systems § 02.01(e), § 2.02 (d & e)
	IP 71151	Performance Indicator Verification for Occupational and Public Radiation Safety Cornerstones
	IP 60855.1	Operation of an ISFSI at Operating Plants

Note: This is a broad list of the documents the lead NRC inspector will be interested in reviewing and obtaining during the pre-inspection visit. The current version of these documents is expected unless specified otherwise. Electronic media is preferred, if readily available. (The preferred file format is Word, WordPerfect, or searchable ".pdf" files on CDROM. Please provide 2 copies of each CDROM that is submitted.) Information in the "document lists" should contain enough information to be easily understood by someone who has a knowledge of the subject. The lead inspector will discuss specific information needs with the licensee staff and may request additional documents.

ISFSI Activities [60855.1] *Note: this area will be inspected during the pre-inspection visit*

- Provide the following Procedure/Guidance documents for:
 - access controls and surveillances associated with Independent Spent Fuel Storage Installation (ISFSI) area activities
- Provide Records/Documentation for:
 - results of Routine ISFSI Surveys and Monitoring, 1st Quarter 2005 - 2th Quarter 2006
 - PIP issues associated with or potentially affecting ISFSI radiological conditions and measurements since January 2005

Enclosure

ACCESS CONTROLS TO RADIOLOGICALLY SIGNIFICANT AREAS [7112101]

Prior to the Onsite Inspection

- Provide List/Maps of:
 - current RAs, HRAs, Locked HRAs, VHRAs, and airborne radioactivity areas - Note - only provide general area maps showing rooms w/ HRA/LHRA/VHRA conditions.
Detailed maps of specific rooms/areas not needed
- Provide Procedure/Guidance documents for:
 - administrative and physical access controls including posting, labeling, survey frequency, dosimetry, multi-badging, LHRA key control, control of divers, controls for non-fuel highly activated materials stored in SPF, direct alarming dosimetry (DAD) use, RWP development
- Provide Corrective Action Program (CAP) documents including:
 - listing of PIPs issued/documented since January 2005 for radiation protection program activities including access control/personnel contamination events, and intakes
 - Audit and self assessments conducted/issued since January 2005 for radiation protection program activities
- Provide list of scheduled work in HRAs, LHRAs, VHRAs, airborne radioactivity areas tentatively scheduled for the weeks of onsite inspection (09/24-28 & 10/02-06/2006)
- Identify list of infrequently 2EOC17 performed tasks or tasks potentially involving LHRA/VHRA conditions
- Provide the Following Records/Evaluations
 - List 10 maximum personnel exposures for Calendar Years (CY) 2005 and Year-to-Date (YTD) 2006
 - List of internal dose assessments (with assigned dose) for intakes since Jan 2005
 - List of Personnel Contamination Assessments since January 2005 - general list, not details

ALARA [7112102]

Prior to the Onsite Inspection

- Provide Copy of all procedures related to:
 - HP/ALARA not listed above (e.g. declared pregnant worker, shielding, etc.).
 - HP/CHEM/OPs procedures related to crudburst & cleanup.
 - ALARA manual (or equivalent high-level procedure).
 - crudburst & cleanup trending point data from previous outage (e.g. dose rates and cobalt concentration). Data should be from the same unit (U2) as the current outage.
 - source term reduction program guidance, including cobalt reduction (might be part of ALARA manual).
 - flood-up and drain-down
 - List of PIPs related to ALARA or crudburst since January 2004. Note: Not Necessary to Duplicate PIPs that overlap those with access controls.

- Any self-assessments or audits of ALARA program since January 2004

- Provide details regarding:
 - Highest five person-rem exposure tasks for current refueling outage and ALARA planning packages if available

RADIOACTIVE GASES AND LIQUID EFFLUENT TREATMENT & MONITORING SYSTEMS
§02.01(e), § 2.02 (d & e) [7112201]

Prior to the Onsite Inspection

- Provide Procedures/Guidance/Documentation for :
 - onsite/offsite surface/groundwater monitoring activities
 - action plan developed for groundwater protection initiative
 - documenting events associated with spills, leaks, or unexpected liquid discharge or other unusual occurrence
- Provide summary of spill, leak, unexpected liquid discharge data documented in the site's 10 CFR 50.75(g) files. *Note: Only provide summary, 50.75(g) file details may be reviewed during onsite inspection*
- CAP documents including
 - list of PIPs issued/documentated since January 2004 for
 - H-3 in ground water wells
 - Audit and self assessments conducted/issued since January 2004 for:
 - groundwater monitoring/contamination
- Annual Effluent/REMP Reports for CY 2004 & 2005: Focus on Surface and Groundwater Monitoring

RADIOACTIVE MATERIAL PROCESSING AND TRANSPORTATION [7112202]

Prior to the Onsite Inspection

- Provide Copy of Current Process Control Program (PCP)
- Radioactive waste (Radwaste) Information Input Into the Annual Effluent Monitoring Reports for CYs 04 & 05
- Procedures/Guidance/Data Related to:
 - transportation of radioactive material/radwaste.
 - radwaste processing analysis, resin sluicing, and HIC dewatering.
 - Part 61 Sampling and Analyses;
 - Development/Evaluation of Scaling Factors and Application to Hard to Detect Radionuclides
 - Procedures for evaluation of RCS/radioactive waste chemistry to verify stability of waste stream radionuclide composition

- Provide the following
 - list of shipments made since March 2004. Highlight 5 “hottest” shipments and any Type A container shipments made since March 2004
 - list of changes made to solid radwaste processing systems since March 2004.
 - list all permanently abandoned radwaste processing equipment or systems.
 - most recent 10 CFR Part 61 analyses for all waste streams
 - any data on indication of failed-fuel since January 2004
 - list of PIP documents related to shipping or radwaste since March 2004 (titles/summaries)
 - any self-assessments/audits of shipping/radwaste processing program since March 2004
- Transport Cask CoC’s and associated documents for frequently used transport casks
 - Copies not required prior to onsite inspection but listing of responsible staff/on-site document location and availability requested.
 - Licensee procedures for cask loading and/or closure

PI VERIFICATION [71151]

- Procedure/Guidance for collection and reporting of PI data.
- Records:
 - PIPs related to occupational and public radiation safety PI occurrences issued since January 2005
 - Monthly PI reports since January 2005
 - UDO Logs Since January 2005
 - List of Out of Service (OOS) Effluent Monitors and Length of Inoperability Since January 2005

GENERAL INFORMATION NEEDED

- Organization Charts and Contact Phone Numbers for:
 - Radiation Protection
 - Chemistry
 - Operations
 - Maintenance and I&C
- Procedure for issuing PIPs and assessing issues for risk significance.
- Updated Final Safety Analysis Report Chapters 11 (Effluents/Radwaste) and 12 Radiation Protection