



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

September 1, 2010

Mr. Regis T. Repko
Vice President
Duke Energy Carolinas, LLC
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – MCGUIRE
NUCLEAR STATION

Dear Mr. Repko:

On August 10, 2010, the NRC staff completed its performance review of the McGuire Nuclear Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter, marked as "Official Use Only - Security Related Information," will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at McGuire Units 1 and 2 was within the Licensee Response column of the NRC's Action Matrix based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting Temporary Instruction (TI) 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems; TI 2515/179, National Source Tracking System Verification; observing Independent Spent Fuel Storage Installation dry run and initial loading campaign for Magnastor storage canisters; and conducting initial reactor operator license examinations. In addition, we plan to conduct Inspection Procedure 92723, Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period, as a result of three Severity Level IV non-cited violations issued between January 1, 2009, and December 31, 2009. You notified us of your readiness for this inspection on August 23, 2010.

The inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

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In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document 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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 997-4607 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Jonathan H. Bartley, Chief
Reactor Projects Branch 1
Division of Reactor Projects

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

Enclosure: McGuire Inspection/Activity Plan

cc w/encl: (See page 3)

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cc w/encl:
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McGuire
Inspection / Activity Plan
 09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			PB1-SUP - FOLLOW-UP INSP FOR >3 SL-IV VIOLATIONS		2
1,2	09/20/2010	09/24/2010	IP 92723	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	
			EB1-MODS - MODIFICATIONS - 10CFR50.59		4
1,2	08/30/2010	09/03/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	09/13/2010	09/17/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			PB7-PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
1,2	10/04/2010	10/08/2010	IP 71152B	Identification and Resolution of Problems	
1,2	10/18/2010	10/22/2010	IP 71152B	Identification and Resolution of Problems	
			ISFSI - ISFSI NAC MAGNASTOR DRY RUN		5
1,2	11/15/2010	11/19/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			EB3ISI - UNIT 2 INSERVICE INSPECTION		1
2	03/14/2011	03/18/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			OL EXAM - INITIAL EXAM PREP		4
1	05/23/2011	05/27/2011	V23350	MCGUIRE/MAY 2011 EXAM AT POWER FACILITIES	
			ISFSI - ISFSI NAC MAGNASTOR FIRST CAMPAIGN		3
1,2	06/13/2011	06/17/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			OL EXAM - INITIAL EXAM - WEEK 1		4
1	06/13/2011	06/17/2011	V23350	MCGUIRE/MAY 2011 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 2		4
1	06/20/2011	06/24/2011	V23350	MCGUIRE/MAY 2011 EXAM AT POWER FACILITIES	
			TI-177 - TI-177 GAS INTRUSION		3
1,2	06/27/2011	07/01/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			PSB1-RP - RP PUBLIC RADIATION PROTECTION INSP		4
1,2	06/27/2011	07/01/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	06/27/2011	07/01/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	06/27/2011	07/01/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	06/27/2011	07/01/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1,2	06/27/2011	07/01/2011	IP 71151	Performance Indicator Verification	
			PSB1-TI - TI-179 NSTS VERIFICATION		3
1,2	06/27/2011	07/01/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			PSB1EP - EMERGENCY PREPAREDNESS EXERCISE		3
1,2	08/08/2011	08/12/2011	IP 7111401	Exercise Evaluation	
1,2	08/08/2011	08/12/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	08/08/2011	08/12/2011	IP 71151	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

Enclosure