



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

September 1, 2009

Mr. Bruce H. Hamilton
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. Hamilton:

On August 11, 2009, 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, 2008, through June 30, 2009. 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 designated and marked as "Official Use Only – Security Related Information" will include the Security cornerstone performance review and resultant inspection plan.

Plant performance for the most recent quarter at McGuire Units 1 and 2 was within the Regulatory Response Column of the NRC's Action Matrix based on a third quarter 2008 Mitigating Systems Cornerstone finding of low to moderate safety significance (White). A supplemental inspection is required using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area." In our March 4, 2009, Annual Assessment Letter, we tentatively scheduled this supplemental inspection for fall 2009. However, based on conversations with your staff, we understand that the scope of the corrective actions may have changed, that additional hardware modifications may be necessary, and that the date of full compliance provided in your November 25, 2008, Reply to the Notice of Violation, may need to be revised. Satisfactory NRC completion of the supplemental inspection is highly dependent on adequate root cause/extent of condition reviews by your staff and clearly defined corrective actions which do not create new or different problems. Consequently, we will not schedule the supplemental inspection until you notify us of your readiness for the inspection.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2010. In addition to reactor oversight process (ROP) baseline inspection activities, we also plan on conducting several infrequently performed inspections, which include Temporary Instruction (TI) 2515/172, Reactor Coolant System Dissimilar Metal Butt Welds; TI 2515/173, Review of the Implementation of the Industry Groundwater Protection Voluntary Initiative; and operator licensing examinations. The inspection plan is provided to minimize the resource impact on your staff and 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 meeting.

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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Jonathan Bartley at (404) 562-4607 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Leonard D. Wert, Jr., Director
Division of Reactor Projects

Docket Nos.: 50-369, 50-370, 72-38
License Nos.: NPF-9, NPF-17

Enclosure: McGuire Inspection/Activity Plan

cc w/encl: (See page 3)

DEC

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McGuire
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE INS		5
1,2	07/27/2009	07/31/2009	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1,2	07/27/2009	07/31/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	07/27/2009	07/31/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1,2	07/27/2009	07/31/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
1,2	07/27/2009	07/31/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
1,2	07/27/2009	07/31/2009	IP 71151	Performance Indicator Verification	
			PSB1EP - EMERGENCY PREPAREDNESS EXERCISE		3
1,2	08/17/2009	08/21/2009	IP 7111401	Exercise Evaluation	
1,2	08/17/2009	08/21/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	08/17/2009	08/21/2009	IP 71151	Performance Indicator Verification	
			EB3ISI - UNIT 2 INSERVICE INSPECTION		1
2	09/14/2009	09/18/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3SGISI - U2 STEAM GENERATOR ISI		1
2	09/14/2009	09/18/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3TI172 - TI-172 RCS DM BUTT WELDS		1
2	09/14/2009	09/18/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			PSB1-RP - RP GROUNDWATER PROTECTION		1
1,2	02/22/2010	02/26/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
			PSB1-RP - RP OCCUPATIONAL BASELINE WEEK 1		2
1,2	03/15/2010	03/19/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	03/15/2010	03/19/2010	IP 7112102-7112102R	ALARA - Required	
1,2	03/15/2010	03/19/2010	IP 7112202	Radioactive Material Processing and Transportation	
1,2	03/15/2010	03/19/2010	IP 71151	Performance Indicator Verification	
			EB3ISI - UNIT 1 ISI		1
1	03/22/2010	03/26/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3TI172 - EB3 TI-172 RCS DM BUTT WELDS		1
1,2	03/22/2010	03/26/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			PSB1-RP - RP OCCUPATIONAL BASELINE WEEK 2		3
1,2	03/29/2010	04/02/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1	03/29/2010	04/02/2010	IP 7112102-7112102R	ALARA - Required	
1,2	03/29/2010	04/02/2010	IP 7112202	Radioactive Material Processing and Transportation	
1,2	03/29/2010	04/02/2010	IP 71151	Performance Indicator Verification	
			OL RQ - REQUAL INSPECTION		2
1,2	06/07/2010	06/11/2010	IP 7111111B	Licensed Operator Requalification Program	

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

Enclosure

McGuire
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			OL EXAM - INITIAL PREP EXAM		3
1	07/05/2010	07/09/2010	V23332	MCGUIRE/AUGUST 2010 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 1		3
1	08/02/2010	08/06/2010	V23332	MCGUIRE/AUGUST 2010 EXAM AT POWER FACILITIES	
			PSB1EP - EMERGENCY PREPAREDNESS INSPECTION		1
1,2	08/16/2010	08/20/2010	IP 7111402	Alert and Notification System Testing	
1,2	08/16/2010	08/20/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	08/16/2010	08/20/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	08/16/2010	08/20/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	08/16/2010	08/20/2010	IP 71151	Performance Indicator Verification	
			EB1-MODS - MODIFICATIONS - 10CFR50.59		3
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	
			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	

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Enclosure