



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

September 2, 2008

Mr. Bruce H. Hamilton
Vice President
Duke Power Company, LLC
d/b/a 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 12, 2008, the NRC staff completed its performance review of the McGuire Nuclear Station for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 the enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Related Information" will include the Physical Protection/Security cornerstone performance 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 several non-ROP inspections, which involve: emergency diesel generator technical specification requirements; site specific implementation of B.5.b phase 2 and 3 mitigation strategies; operator licensing examinations; reactor coolant system dissimilar metal butt welds; and Independent Spent Fuel Storage Installation. In addition, TI 2515/173, Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative, will be performed at your facility prior to August 30, 2010. In the near term, we will contact you to assess your readiness for this inspection and then finalize our schedule accordingly.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2009. 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

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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).

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) 562-4647 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Steven D. Rose, Acting Chief
Reactor Projects Branch 1
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)

DPC

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cc w/encls:

Bruce Hamilton
Vice President
McGuire Nuclear Station
Duke Power Company, LLC d/b/a Duke
Energy Carolinas, LLC
Electronic Mail Distribution

Steven D. Capps
Engineering Manager
Duke Power Company, LLC d/b/a Duke
Energy Carolinas, LLC
Electronic Mail Distribution

Scotty L. Bradshaw
Training Manager
Duke Power Company, LLC d/b/a Duke
Energy Carolinas, LLC
Electronic Mail Distribution

Kenneth L. Ashe
Regulatory Compliance Manager
Duke Power Company, LLC d/b/a Duke
Energy Carolinas, LLC
Electronic Mail Distribution

R. L. Gill, Jr.
Manager
Nuclear Regulatory Issues & Industry Affairs
Duke Power Company, LLC d/b/a Duke
Energy Carolinas, LLC
Electronic Mail Distribution

Lisa F. Vaughn
Associate General Counsel
Duke Energy Corporation
526 South Church Street-EC07H
Charlotte, NC 28202

Kathryn B. Nolan
Senior Counsel
Duke Energy Corporation
526 South Church Street-EC07H
Charlotte, NC 28202

David A. Repka
Winston Strawn LLP
Electronic Mail Distribution

County Manager of Mecklenburg County
720 East Fourth Street
Charlotte, NC 28202

Beverly O. Hall
Chief, Radiation Protection Section
Department of Environmental Health
N.C. Department of Environmental
Commerce & Natural Resources
Electronic Mail Distribution

Dhiaa M. Jamil
Group Executive and Chief Nuclear Officer
Duke Energy Carolinas, LLC
Electronic Mail Distribution

McGuire
Inspection / Activity Plan
09/01/2008 - 12/31/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EB3ISI	- UNIT 1 INSERVICE INSPECTION	1			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/29/2008	10/03/2008	Baseline Inspections
	EB3SGISI	- UNIT 1 SERVICE GENERATOR INSERVICE INSP	1			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/06/2008	10/10/2008	Baseline Inspections
	PSB1-EP	- EMERGENCY PREPAREDNESS INSPECTION	1			
1,2	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review		10/06/2008	10/10/2008	Baseline Inspections
1,2	IP 7111402	Alert and Notification System Testing		10/06/2008	10/10/2008	EP Baseline Inspection
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		10/06/2008	10/10/2008	EP Baseline Inspection
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/06/2008	10/10/2008	EP Baseline Inspection
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		10/06/2008	10/10/2008	EP Baseline Inspection
1,2	IP 71151-EP01	Drill/Exercise Performance		10/06/2008	10/10/2008	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		10/06/2008	10/10/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		10/06/2008	10/10/2008	Baseline Inspections
	TI-171	- B.5.B PHASE 2&3	3			
1,2	IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		11/03/2008	11/07/2008	Generic Safety Inspectio
	TFPI	- TRIENNIEL FIRE PROTECTION INSPECTION	6			
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		03/09/2009	03/13/2009	Baseline Inspections
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		03/23/2009	03/27/2009	Baseline Inspections
	OL EXAM	- INITIAL EXAM PREP	4			
1	V23306	MCGUIRE/MAY 2009 EXAM AT POWER FACILITIES		04/20/2009	04/24/2009	Not Applicable
	EB1-CDBI	- COMPONENT DESIGN BASES INSPECTION	8			
1,2	IP 7111121	Component Design Bases Inspection		05/04/2009	05/08/2009	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		05/18/2009	05/22/2009	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/01/2009	06/05/2009	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/15/2009	06/19/2009	Baseline Inspections
	OL EXAM	- INITIAL EXAM - WEEK 1	4			
1	V23306	MCGUIRE/MAY 2009 EXAM AT POWER FACILITIES		05/11/2009	05/15/2009	Not Applicable
	OL EXAM	- INITIAL EXAM - WEEK 2	4			
1	V23306	MCGUIRE/MAY 2009 EXAM AT POWER FACILITIES		05/18/2009	05/22/2009	Not Applicable
	PSB1-RP	- RADIATION PROTECTION PUBLIC BASELINE INS	4			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		06/08/2009	06/12/2009	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/08/2009	06/12/2009	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/08/2009	06/12/2009	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/08/2009	06/12/2009	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		06/08/2009	06/12/2009	Baseline Inspections

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

McGuire
Inspection / Activity Plan
09/01/2008 - 12/31/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	PSB1-RP	- RADIATION PROTECTION PUBLIC BASELINE INS	4			
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		06/08/2009	06/12/2009	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		06/08/2009	06/12/2009	Baseline Inspections
	EB3HS	- HEAT SINK	2			
1,2	IP 7111107B	Heat Sink Performance		07/13/2009	07/17/2009	Baseline Inspections
	PSB1EP	- EMERGENCY PREPAREDNESS EXERCISE	3			
1,2	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review		08/17/2009	08/21/2009	Baseline Inspections
1,2	IP 7111401	Exercise Evaluation		08/17/2009	08/21/2009	EP Baseline Inspection
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/17/2009	08/21/2009	EP Baseline Inspection
1,2	IP 71151	Performance Indicator Verification		08/17/2009	08/21/2009	Baseline Inspections
	EB3ISI	- UNIT 2 INSERVICE INSPECTION	1			
2	IP 7111108P	Inservice Inspection Activities - PWR		09/14/2009	09/18/2009	Baseline Inspections
	EB3TI172	- TI-172 RCS DM BUTT WELDS	1			
2	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds		09/14/2009	09/18/2009	Generic Safety Inspectio