



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

August 31, 2007

Duke Power Company, LLC  
d/b/a Duke Energy Carolinas, LLC (Duke)  
ATTN: Mr. G. R. Peterson  
Vice President  
McGuire Nuclear Station  
12700 Hagers Ferry Road  
Huntersville, NC 28078-8985

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

Dear Mr. Peterson:

On August 14, 2007, the NRC staff completed its performance review of the McGuire Nuclear Station for the first half of the calendar year 2007 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Overall, McGuire Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for McGuire Units 1 and 2 for the most recent quarter was in 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. In addition to the ROP baseline inspections, we plan to conduct non-baseline inspections involving containment sump blockage, operator licensing examinations, and Independent Spent Fuel Storage Installation.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 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 inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve 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).

The NRC is currently evaluating the scope and frequency of all 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(s) 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/*

James H. Moorman, III, 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:

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**McGuire**  
**Inspection / Activity Plan**  
**09/01/2007 - 03/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
<b>PSB1-EP - EP EXERCISE</b>			<b>3</b>			
1,2	IP 7111401	Exercise Evaluation		10/15/2007	10/19/2007	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/15/2007	10/19/2007	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		10/15/2007	10/19/2007	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		10/15/2007	10/19/2007	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		10/15/2007	10/19/2007	Baseline Inspections
<b>PSB1-RP - RP PUBLIC PRE-INSP/ISFSI</b>			<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/19/2007	11/20/2007	Baseline Inspections
<b>PSB1-RP - RP PUBLIC BASELINE INSPECTION</b>			<b>4</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		12/10/2007	12/14/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		12/10/2007	12/14/2007	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/10/2007	12/14/2007	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		12/10/2007	12/14/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		12/10/2007	12/14/2007	Baseline Inspections
<b>PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT</b>			<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/28/2008	01/30/2008	Baseline Inspections
<b>PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK1</b>			<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/03/2008	03/07/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/03/2008	03/07/2008	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		03/03/2008	03/07/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		03/03/2008	03/07/2008	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		03/03/2008	03/07/2008	Baseline Inspections
<b>EB3ISI - U2 INSERVICE INSPECTION</b>			<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/10/2008	03/14/2008	Baseline Inspections
<b>EB3SGISI - SG ISI</b>			<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/17/2008	03/21/2008	Baseline Inspections
<b>PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK2</b>			<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/17/2008	03/21/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/17/2008	03/21/2008	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		03/17/2008	03/21/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		03/17/2008	03/21/2008	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		03/17/2008	03/21/2008	Baseline Inspections
<b>EB1-SUMP - TI 2515/166 CONTAINMENT SUMP INSPECTION</b>			<b>1</b>			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		03/31/2008	04/04/2008	Safety Issues

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	<b>OL EXAM - INITIAL EXAM PREP</b>		<b>4</b>			
1	V23282	MCGUIRE/MAY 2008 EXAM AT POWER FACILITIES		04/28/2008	05/02/2008	Not Applicable
	<b>EB1-CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>			
1,2	IP 7111121	Component Design Bases Inspection		05/05/2008	05/09/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		05/19/2008	05/23/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/02/2008	06/06/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/16/2008	06/20/2008	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23282	MCGUIRE/MAY 2008 EXAM AT POWER FACILITIES		05/19/2008	05/30/2008	Not Applicable
	<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		06/16/2008	06/20/2008	Baseline Inspections
	<b>EB3ISI - U1 ISI</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/22/2008	09/26/2008	Baseline Inspections
	<b>EB3SGISI - U1 SG ISI</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/29/2008	10/03/2008	Baseline Inspections
	<b>PSB1-EP - EP INSP</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		10/06/2008	10/10/2008	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		10/06/2008	10/10/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/06/2008	10/10/2008	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		10/06/2008	10/10/2008	Baseline Inspections
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
	<b>PI&amp;R - PREP TRIP-PROBLEM ID AND RESOL</b>		<b>1</b>			
1,2	IP 71152B	Identification and Resolution of Problems		10/20/2008	10/24/2008	Baseline Inspections
	<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>			
1,2	IP 71152B	Identification and Resolution of Problems		12/01/2008	12/05/2008	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		12/15/2008	12/19/2008	Baseline Inspections
	<b>EB1-MODS - MODIFICATIONS - 10CFR50.59</b>		<b>4</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		02/09/2009	02/13/2009	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		02/09/2009	02/13/2009	Baseline Inspections
	<b>TFPI - PRE INSP VISIT</b>		<b>6</b>			
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		02/24/2009	02/26/2009	Baseline Inspections
	<b>TFPI - INSP</b>		<b>5</b>			
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		03/09/2009	03/13/2009	Baseline Inspections

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

Enclosure

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**Inspection / Activity Plan**  
**09/01/2007 - 03/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start      End	Inspection Type
1, 2	TFPI - INSP IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	5	03/23/2009    03/27/2009	Baseline Inspections

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

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