



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

August 30, 2005

Duke Energy Corporation  
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 3, 2005, the NRC staff completed its performance review of the McGuire Nuclear Station for the first half of the calendar year 2005 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.

Plant performance for the most recent quarter 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 only reactor oversight process baseline inspections at your facility through March 31, 2007. We also plan on conducting inspections that are not part of the routine baseline inspection program. These activities include a routine inspection associated with your independent spent fuel storage installation; a safety issue inspection concerning the reactor pressurizer penetration nozzles and steam space piping connections (NRC Bulletin 2004-01); and the administration of operator licensing examinations.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through March 31, 2007. 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).

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) 562-4540 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA by Joseph B. Brady Acting For/**

Michael E. Ernstes, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

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

Enclosure: McGuire Inspection/Activity Plan

cc w/encl:

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**McGuire**  
**Inspection / Activity Plan**  
**09/01/2005 - 03/31/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>MTNT1160 - 2515/160 U-1: PZR PENETRATION NOZZLES</b>		<b>1</b>			
1	IP 2515/160	Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		09/28/2005	09/30/2005	Safety Issues
	<b>EB3-ISI - U1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/03/2005	10/07/2005	Baseline Inspections
	<b>EB1SSDPC - SSDPC PRE-INSPECTION VISIT</b>		<b>1</b>			
1, 2	IP 7111121	Safety System Design and Performance Capability		02/20/2006	02/24/2006	Baseline Inspections
	<b>EB1SSDPC - SAFETY SYSTEM DESIGN &amp; PERF. CAPABILITY</b>		<b>6</b>			
1, 2	IP 7111121	Safety System Design and Performance Capability		03/20/2006	03/24/2006	Baseline Inspections
1, 2	IP 7111121	Safety System Design and Performance Capability		04/03/2006	04/07/2006	Baseline Inspections
1, 2	IP 7111121	Safety System Design and Performance Capability		04/17/2006	04/21/2006	Baseline Inspections
	<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>			
1, 2	IP 7111111B	Licensed Operator Requalification Program		05/15/2006	05/19/2006	Baseline Inspections
	<b>PS1-RP - RP PREINSPECTION VISIT/ ISFSI</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		08/28/2006	08/30/2006	Baseline Inspections
	<b>PS1-RP - RP BASELINE OCCUPATIONAL WK1</b>		<b>3</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/18/2006	09/22/2006	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		09/18/2006	09/22/2006	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		09/18/2006	09/22/2006	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/18/2006	09/22/2006	Baseline Inspections
	<b>EB3-ISI - U2 INSERVICE INSPECTION</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		09/25/2006	09/29/2006	Baseline Inspections
	<b>EB3SGISI - U2 STEAM GENERATOR ISI</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		10/02/2006	10/06/2006	Baseline Inspections
	<b>PS1-RP - RP BASELINE OCCUPATIONAL WK2</b>		<b>2</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		10/02/2006	10/06/2006	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		10/02/2006	10/06/2006	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		10/02/2006	10/06/2006	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		10/02/2006	10/06/2006	Baseline Inspections
	<b>PS2-EP - EP INSP</b>		<b>1</b>			
1, 2	IP 7111402	Alert and Notification System Testing		10/23/2006	10/27/2006	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		10/23/2006	10/27/2006	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/23/2006	10/27/2006	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		10/23/2006	10/27/2006	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		10/23/2006	10/27/2006	Baseline Inspections

**McGuire**  
**Inspection / Activity Plan**  
**09/01/2005 - 03/31/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>EB2-TFP - FIRE PROTECTION-TRIENNIAL PRE INSP VISIT</b>		<b>7</b>			
1,2	IP 7111105T	Fire Protection [Triennial]		10/31/2006	11/02/2006	Baseline Inspections
	<b>EB2-TFP - FIRE PROTECTION-TRIENNIAL</b>		<b>4</b>			
1,2	IP 7111105T	Fire Protection [Triennial]		11/27/2006	12/01/2006	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		12/11/2006	12/15/2006	Baseline Inspections
	<b>PI&amp;R - PI&amp;R</b>		<b>4</b>			
1,2	IP 71152B	Identification and Resolution of Problems		01/22/2007	01/26/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		02/05/2007	02/09/2007	Baseline Inspections
	<b>EB1-MODS - MODIFICATIONS-10CFR50.59</b>		<b>3</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		02/12/2007	02/16/2007	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		02/12/2007	02/16/2007	Baseline Inspections
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>2</b>			
1	V23235	MCGUIRE/EXAMS AT POWER FACILITIES		02/26/2007	03/02/2007	Not Applicable
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23235	MCGUIRE/EXAMS AT POWER FACILITIES		03/19/2007	03/23/2007	Not Applicable