



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

March 1, 2007

Duke Power Company LLC
ATTN: Mr. G. R. Peterson
Site Vice President
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: ANNUAL ASSESSMENT LETTER - MCGUIRE NUCLEAR STATION
(NRC INSPECTION REPORT 05000369/2007001 AND 05000370/2007001)

Dear Mr. Peterson:

On February 8, 2007, the NRC technical staff completed its performance review of the McGuire Nuclear Station for the period from January 1 through December 31, 2006. 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 the most recent quarter, as well as the first three quarters of the assessment cycle, 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. We also plan on conducting non-ROP inspections of the independent spent fuel storage facility, reactor vessel head and head penetrations, and containment emergency recirculation sump modifications. Additionally, initial reactor operator licensing examinations are scheduled.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2008. 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 mid-cycle review meeting.

DEC

2

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/

James H. Moorman, III, Chief
Reactor Projects Branch 1
Division of Reactor Projects

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

Enclosure: McGuire Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encls:

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McGuire
Inspection / Activity Plan
03/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	OL PREP - INITIAL EXAM PREPARATION		3			
1	V23263	MCGUIRE/MARCH 2007 EXAM AT POWER FACILITIES		02/26/2007	03/02/2007	Not Applicable
	EB3-ISI - UNIT 1 INSERVICE INSPECTION		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/19/2007	03/23/2007	Baseline Inspections
	OL EXAM - INITIAL EXAM		3			
1	V23263	MCGUIRE/MARCH 2007 EXAM AT POWER FACILITIES		03/19/2007	03/30/2007	Not Applicable
	EB3TI150 - 2515/150 U-1: RPV & VHP NOZZLES		1			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC ORDER EA-03-		04/02/2007	04/06/2007	Safety Issues
	EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-1)		1			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		04/08/2007	04/13/2007	Safety Issues
	EB3-HS - HEAT SINK		2			
1,2	IP 7111107B	Heat Sink Performance		05/07/2007	05/11/2007	Baseline Inspections
	EB3-MR - MAINTENANCE EFFECTIVENESS		1			
1,2	IP 7111112B	Maintenance Effectiveness		06/04/2007	06/08/2007	Baseline Inspections
	60855.1 - OPERATIONAL ISFSI INSP. BY RESIDENT		1			
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/09/2007	07/13/2007	Other Routine
	PSB1-EP - EP EXERCISE		3			
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
	PSB1-RP - RP PUBLIC PRE-INSP/ISFSI		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/13/2007	11/15/2007	Baseline Inspections
	PSB1-RP - RP PUBLIC BASELINE INSPECTION		4			
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
	PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/04/2008	02/06/2008	Baseline Inspections
	PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK1		3			
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

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

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McGuire
Inspection / Activity Plan
03/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK1		3			
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
	EB3ISI - U2 INSERVICE INSPECTION		1			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/10/2008	03/14/2008	Baseline Inspections
	PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK2		2			
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
	EB1-SUMP - TI 2515/166 CONTAINMENT SUMP INSPECTION		1			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		03/31/2008	04/04/2008	Safety Issues
	OL PREP - INITIAL EXAM PREP		3			
1	V23282	MCGUIRE/MAY 2008 EXAM AT POWER FACILITIES		04/28/2008	05/02/2008	Not Applicable
	EB1-CDBI - COMPONENT DESIGN BASES INSPECTION		7			
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
	OL EXAM - INITIAL EXAM		3			
1	V23282	MCGUIRE/MAY 2008 EXAM AT POWER FACILITIES		05/19/2008	05/23/2008	Not Applicable
	OL RQ - REQUAL INSPECTION		2			
1,2	IP 7111111B	Licensed Operator Requalification Program		06/16/2008	06/20/2008	Baseline Inspections
	EB3ISI - U1 INSERVICE INSPECTION		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/15/2008	09/19/2008	Baseline Inspections