



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

March 2, 2005

Tennessee Valley Authority
ATTN: Mr. K. W. Singer
Chief Nuclear Officer and
Executive Vice President
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: ANNUAL ASSESSMENT LETTER - WATTS BAR NUCLEAR PLANT,
INSPECTION REPORT 05000390/2005001, 05000391/2005001

Dear Mr. Singer:

On February 10, 2005, the NRC staff completed its end-of-cycle plant performance assessment of the Watts Bar Nuclear Plant. The end-of-cycle review for Watts Bar involved the participation of the reactor technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2004. 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate end-of-cycle performance review 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, Watts Bar 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 for the first three quarters of the assessment cycle, 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 (ROP) baseline inspections at your facility through September 30, 2006. We also plan to conduct non-ROP inspections of the lay-up and preservation of Unit 2 and your preparations for steam generator replacement.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved 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 mid-cycle review meeting.

ML050610599-pkg
ML050610602-ltr
ML050610619-encl

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 this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4520 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA by S. Shaeffer for/

Stephen J. Cahill, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket Nos. 50-390, 50-391
License No. NPF-90 and Construction
Permit No. CPPR-92

Enclosure: Watts Bar Inspection/Activity Plan

cc w/encl: (See page 3)

TVA

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cc w/encl:
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Watts Bar
Inspection / Activity Plan
03/01/2005 - 09/30/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		6			
1	IP 71152B	Identification and Resolution of Problems		02/28/2005	03/04/2005	Baseline Inspections
	MTN-ISI - INSERVICE INSPECTION		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		02/28/2005	03/04/2005	Baseline Inspections
	PSB1 RP - INSPECTION WEEK 1		2			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/28/2005	03/04/2005	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		02/28/2005	03/04/2005	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		02/28/2005	03/04/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		02/28/2005	03/04/2005	Baseline Inspections
	MTNT1160 - 2515/160 U-1: PZR PENTRATION NOZZLES		1			
1	IP 2515/160	Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		03/03/2005	03/07/2005	Safety Issues
	MTNSGSI - STEAM GENERATOR ISI		2			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/08/2005	03/11/2005	Baseline Inspections
	PSB1 RP - INSPECTION WEEK 2		3			
1	IP 7112101	Access Control to Radiologically Significant Areas		03/14/2005	03/18/2005	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		03/14/2005	03/18/2005	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		03/14/2005	03/18/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		03/14/2005	03/18/2005	Baseline Inspections
	EB1-MODS - MODIFICATIONS/10CFR50.59		4			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		05/09/2005	05/13/2005	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		05/09/2005	05/13/2005	Baseline Inspections
	EB1SSDPC - SSDPC PRE-INSPECTION VISIT		1			
1	IP 7111121	Safety System Design and Performance Capability		06/13/2005	06/17/2005	Baseline Inspections
	EB1SSDPC - SAFETY SYSTEM DESIGN & PERF. CAPABILITY		6			
1	IP 7111121	Safety System Design and Performance Capability		07/11/2005	07/15/2005	Baseline Inspections
1	IP 7111121	Safety System Design and Performance Capability		07/25/2005	07/29/2005	Baseline Inspections
	MTN-MR - MAINT EFFECTIVENESS		2			
1	IP 7111112B	Maintenance Effectiveness		10/23/2005	10/27/2005	Baseline Inspections
	EP - EMERGENCY EXERCISE		2			
1	IP 7111401	Exercise Evaluation		10/31/2005	11/04/2005	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/31/2005	11/04/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/31/2005	11/04/2005	Baseline Inspections
	PS1-RP - RP BASELINE PUBLIC		3			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		05/01/2006	05/05/2006	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		05/01/2006	05/05/2006	Baseline Inspections

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

Enclosure

Watts Bar
Inspection / Activity Plan
03/01/2005 - 09/30/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	PS1-RP	- RP BASELINE PUBLIC	3			
1	IP 7112203	Radiological Environmental Monitoring Program		05/01/2006	05/05/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		05/01/2006	05/05/2006	Baseline Inspections
	OL PREP	- INITIAL EXAM PREP	3			
1	V23241	WATTS BAR/EXAM AT POWER FACILITIES		08/07/2006	08/11/2006	Not Applicable
	PS2-EP	- EP INSP	1			
1	IP 7111402	Alert and Notification System Testing		08/28/2006	09/02/2006	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		08/28/2006	09/02/2006	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/28/2006	09/02/2006	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/28/2006	09/02/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/28/2006	09/02/2006	Baseline Inspections
	OL EXAM	- INITIAL EXAM	3			
1	V23241	WATTS BAR/EXAM AT POWER FACILITIES		08/28/2006	09/08/2006	Not Applicable