



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

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

SUBJECT: ANNUAL ASSESSMENT LETTER - WATTS BAR NUCLEAR PLANT,
NRC INSPECTION REPORT 05000390/2007001 AND 05000391/2007001

Dear Mr. Singer:

On February 6, 2007, the NRC technical staff completed its performance review of the Watts Bar Nuclear Plant 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, 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 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 inspection of the reactor pressure vessel head and penetration nozzle examinations and an in-office review of your containment emergency recirculation sump blockage modification calculations and commitments. 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.

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) 562-4550 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Malcolm T. Widmann, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket No.: 50-390, 50-391
Licensee No.: DPR-90 and CPPR-92

Enclosure: Watts Bar Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encl:

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Watts Bar
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
	EB1-CDBI - COMPONENT DESIGN BASES INSPECTION		7			
1	IP 7111121	Component Design Bases Inspection		02/26/2007	03/02/2007	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		03/05/2007	03/09/2007	Baseline Inspections
	PSB1-RP - RP PRE-INSPECTION VISIT		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/24/2007	04/26/2007	Baseline Inspections
	TFP - TFP INFO TRIP		4			
1	IP 7111105T	Fire Protection [Triennial]		05/08/2007	05/10/2007	Baseline Inspections
	PSB1-RP - RP OCCUPATIONAL BASELINE INSPECTION		3			
1	IP 7112101	Access Control to Radiologically Significant Areas		05/21/2007	05/25/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		05/21/2007	05/25/2007	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		05/21/2007	05/25/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		05/21/2007	05/25/2007	Baseline Inspections
	TFP - TRIENNIAL FIRE PROTECTION INSPECTION		4			
1	IP 7111105T	Fire Protection [Triennial]		05/28/2007	06/01/2007	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		06/11/2007	06/15/2007	Baseline Inspections
	EB3-HS - HEAT SINK		2			
1	IP 7111107B	Heat Sink Performance		06/25/2007	06/29/2007	Baseline Inspections
	RPB6-PIR - BIENNIAL PI&R INSPECTION		4			
1	IP 71152B	Identification and Resolution of Problems		08/27/2007	08/31/2007	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		09/10/2007	09/14/2007	Baseline Inspections
	EB1-MODS - MODIFICATIONS-10CFR50.59		3			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		10/29/2007	11/02/2007	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		10/29/2007	11/02/2007	Baseline Inspections
	PSB1-EP - EP EXERCISE		2			
1	IP 7111401	Exercise Evaluation		11/05/2007	11/09/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/05/2007	11/09/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		11/05/2007	11/09/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		11/05/2007	11/09/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		11/05/2007	11/09/2007	Baseline Inspections
	EB3-ME - MAINTENANCE EFFECTIVENESS		1			
1	IP 7111112B	Maintenance Effectiveness		12/10/2007	12/14/2007	Baseline Inspections
	OL PREP - INITIAL EXAM PREP		3			
1	V23277	WATTS BAR/JANUARY 2008 EXAM AT POWER FACILITIES		01/07/2008	01/11/2008	Not Applicable
	PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/07/2008	01/11/2008	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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Watts Bar
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 EXAM - INITIAL EXAM		2			
1	V23277	WATTS BAR/JANUARY 2008 EXAM AT POWER FACILITIES		01/28/2008	02/08/2008	Not Applicable
	PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK1		4			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/11/2008	02/15/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		02/11/2008	02/15/2008	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		02/11/2008	02/15/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		02/11/2008	02/15/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		02/11/2008	02/15/2008	Baseline Inspections
	EB3-ISI - UNIT 1 - ISI		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		02/18/2008	02/22/2008	Baseline Inspections
	EB3RPV - REACTOR HEAD PENETRATIONS TI150		1			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC ORDER EA-03-		02/18/2008	02/22/2008	Safety Issues
	PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK2		2			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/25/2008	02/29/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		02/25/2008	02/29/2008	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		02/25/2008	02/29/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		02/25/2008	02/29/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		02/25/2008	02/29/2008	Baseline Inspections
	PSB1-EP - EP INSP		1			
1	IP 7111402	Alert and Notification System Testing		08/25/2008	08/29/2008	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		08/25/2008	08/29/2008	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/25/2008	08/29/2008	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/25/2008	08/29/2008	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		08/25/2008	08/29/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		08/25/2008	08/29/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		08/25/2008	08/29/2008	Baseline Inspections