



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

March 2, 2006

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 - BROWNS FERRY NUCLEAR PLANT,  
INSPECTION REPORT 05000259/2006001, 05000260/2006001, AND  
05000296/2006001

Dear Mr. Singer:

On February 9, 2006, the NRC staff completed its performance review of the operating Units 2 and 3 at the Browns Ferry Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2005. 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 enclosed inspection plan do not include physical protection information. A separate letter, designated and marked as "Official Use Only - Security-Related Information", will include the physical protection review and resultant inspection plan.

Overall, Browns Ferry Units 2 and 3 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. We base this conclusion on the fact that all inspection findings were classified as having very low safety significance (Green) and all PIs indicated performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at the operating Units 2 and 3. We also plan on conducting several non-ROP inspections which include routine independent spent fuel storage installation (ISFSI) operations inspections and any needed reviews of your license renewal program activities and extended power uprate modifications.

In addition, we will continue to conduct routine oversight inspections of the Unit 1 Recovery Project in accordance with the NRC Inspection Manual Chapter (MC) 2509, "Browns Ferry Unit 1 Restart Project Inspection Program." We have planned specialized inspections of significant Unit 1 modification work, Unit 1 Recovery Special Programs, and other open items. Also, as we notified you in a letter, dated December 29, 2004, we will be monitoring the Unit 1 Occupational Radiation Safety, Public Radiation Safety, Emergency Preparedness, and Physical Protection Cornerstones under the normal reactor oversight process (ROP). Therefore, we plan to conduct only baseline inspections of these areas for Unit 1. The remaining three Unit 1 Cornerstones

Pkg - ML060610519  
Ltr - ML060610522  
Encl - ML060610528

will be transitioned to the ROP during your completion of the Unit 1 Recovery Project. As such, please note that several of the planned Unit 2 and 3 baseline inspections will be incorporating Unit 1 in the inspection scope as part of this transition process per MC 2509.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through September 30, 2007. The inspection plan is provided 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 nine months of the inspection plan are tentative and may be revised at the mid-cycle review. Although our intent is to maintain the enclosed inspection plan fixed for the first nine months, a need may arise to conduct one or more unanticipated inspections prior to issuing an updated inspection plan with the 2006 assessment cycle mid-cycle letter. If an inspection of this type becomes necessary, we will notify you of the planned inspection dates as soon as possible to resolve as much as we can, any scheduling and personnel availability conflicts you may have.

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 404-562-4550 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA by Scott M. Shaeffer Acting for/***

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

Docket Nos. 50-259, 50-260, 50-296, 72-52  
License No. DPR-33, DPR-52, DPR-68

Enclosure: Browns Ferry Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encl:

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**Browns Ferry**  
**Inspection / Activity Plan**  
**03/01/2006 - 09/30/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>EB3BF1 - PLATFORMS, COATINGS, SUPPORTS</b>		<b>1</b>			
1	IP 37550	Engineering		03/06/2006	03/10/2006	Other Routine
	<b>EB3BF1 - LARGE BORE PIPING - ENG'G</b>		<b>1</b>			
1	IP 37550	Engineering		02/27/2006	03/03/2006	Other Routine
	<b>EB3-ISI - U3 INSERVICE INSPECTION</b>		<b>1</b>			
3	IP 7111108G	Inservice Inspection Activities - BWR		03/06/2006	03/10/2006	Baseline Inspections
	<b>EB1-BF1 - CABLE INSTALLATION</b>		<b>1</b>			
1	IP 37550	Engineering		03/06/2006	03/10/2006	Other Routine
	<b>PSB1-RP - RP INSPECTION</b>		<b>1</b>			
1, 2, 3	IP 7112101	Access Control to Radiologically Significant Areas		03/13/2006	03/17/2006	Baseline Inspections
	<b>EB1-BF1 - CABLE INSTALLATION</b>		<b>1</b>			
1	IP 51061	Electric Cable - Procedure Review		03/20/2006	03/24/2006	Other Routine
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23258	BROWNS FERRY/MAY 2006 EXAM AT POWER FACILITIES		03/27/2006	03/31/2006	Not Applicable
	<b>EB3BF1 - PLTFORMS, COATINGS, SUPPORTS</b>		<b>1</b>			
1	IP 37550	Engineering		04/03/2006	04/07/2006	Other Routine
	<b>EB3BF1 - PLATFORMS, SUPPORTS, COATINGS</b>		<b>2</b>			
1	IP 37550	Engineering		04/03/2006	04/07/2006	Other Routine
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23258	BROWNS FERRY/MAY 2006 EXAM AT POWER FACILITIES		05/01/2006	05/12/2006	Not Applicable
	<b>EB3-HS - HEAT SINK</b>		<b>2</b>			
1, 2, 3	IP 7111107B	Heat Sink Performance		05/22/2006	05/26/2006	Baseline Inspections
	<b>EB3 HS - GL 89-13</b>		<b>2</b>			
1	IP 37550	Engineering		05/22/2006	05/26/2006	Other Routine
	<b>PS2-EP - EP INSP</b>		<b>1</b>			
1, 2, 3	IP 7111402	Alert and Notification System Testing		05/29/2006	06/02/2006	Baseline Inspections
1, 2, 3	IP 7111403	Emergency Response Organization Augmentation Testing		05/29/2006	06/02/2006	Baseline Inspections
1, 2, 3	IP 7111404	Emergency Action Level and Emergency Plan Changes		05/29/2006	06/02/2006	Baseline Inspections
1, 2, 3	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		05/29/2006	06/02/2006	Baseline Inspections
1, 2, 3	IP 71151	Performance Indicator Verification		05/29/2006	06/02/2006	Baseline Inspections
	<b>EB2 BF1 - THERMAL OVERLOADS, SPLICES, FUSES</b>		<b>2</b>			
1	IP 51053	Electrical Components And Systems - Work Observation		06/05/2006	06/09/2006	Other Routine
	<b>OPN ITEM - OPEN ITEM GL 96-01</b>		<b>2</b>			
1	IP 92701	Followup		06/05/2006	06/09/2006	Other Routine

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

Enclosure

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Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>EB3 BF1 - LARGE BORE PIPING SUPPORTS</b>		<b>1</b>			
1	IP 37550	Engineering		06/05/2006	06/09/2006	Other Routine
1	IP 37550	Engineering		06/26/2006	06/30/2006	Other Routine
	<b>OL EXAM - INITIAL EXAM</b>		<b>2</b>			
1	V23258	BROWNS FERRY/MAY 2006 EXAM AT POWER FACILITIES		06/12/2006	06/16/2006	Not Applicable
	<b>EB2 BF1 - EQ, THERMAL OVERLOADS, SPLICES</b>		<b>2</b>			
1	IP 51053	Electrical Components And Systems - Work Observation		06/19/2006	06/23/2006	Other Routine
	<b>EB3 BF1 - U1 ISI</b>		<b>1</b>			
1	IP 73753	Inservice Inspection		06/19/2006	06/23/2006	Other Routine
	<b>ISFSI-O - 60855.1 - OPERATION OF AN ISFSI</b>		<b>1</b>			
2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/03/2006	07/07/2006	Other Routine
	<b>EB3 BF1 - SMALL BORE AND INSTRUMENT PIPING</b>		<b>1</b>			
1	IP 37550	Engineering		07/10/2006	07/14/2006	Other Routine
	<b>EB3BF1 - HVAC SUPPORTS</b>		<b>1</b>			
1	IP 37550	Engineering		07/24/2006	07/28/2006	Other Routine
	<b>EB1ELECT - CABLE AMPACITY</b>		<b>1</b>			
1	IP 37550	Engineering		07/31/2006	08/04/2006	Other Routine
	<b>EB2-TFP - TRIENNIAL FP PRE-INSPECTION VISIT</b>		<b>4</b>			
1, 2, 3	IP 7111105T	Fire Protection [Triennial]		08/01/2006	08/03/2006	Baseline Inspections
	<b>EB1 BF1 - MISC STEEL FRAMES</b>		<b>1</b>			
1	IP 37550	Engineering		08/14/2006	08/18/2006	Other Routine
	<b>BUL 80-6 - ENGINEERING SAFETY RESET CONTROL</b>		<b>1</b>			
1	IP 37550	Engineering		08/28/2006	09/01/2006	Other Routine
	<b>EB2-TFP - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>4</b>			
2, 3	IP 7111105T	Fire Protection [Triennial]		08/28/2006	09/01/2006	Baseline Inspections
	<b>EB3 BF1 - SMALL BORE AND INSTRUMENT TUBING</b>		<b>1</b>			
1	IP 37550	Engineering		09/05/2006	09/08/2006	Other Routine
	<b>EB1 BF1 - DRYWELL COATINGS</b>		<b>1</b>			
1	IP 37550	Engineering		09/11/2006	09/15/2006	Other Routine
	<b>EB2-TFP - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>4</b>			
2, 3	IP 7111105T	Fire Protection [Triennial]		09/11/2006	09/15/2006	Baseline Inspections
	<b>EB3MR - UNIT 1 MAINTENANCE RULE</b>		<b>2</b>			
1	IP 62706	Maintenance Rule		09/11/2006	09/15/2006	Other Routine
	<b>EB1BF1 - CABLE INSTALLATION</b>		<b>1</b>			
1	IP 51053	Electrical Components And Systems - Work Observation		09/18/2006	09/22/2006	Other Routine

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	<b>EB2-TFP</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>4</b>			
1	IP 7111105T	Fire Protection [Triennial]		09/25/2006	09/29/2006	Baseline Inspections
	<b>EB2 BF1</b>	<b>- EQ, PIECE PARTS</b>	<b>1</b>			
1	IP 51053	Electrical Components And Systems - Work Observation		10/10/2006	10/13/2006	Other Routine
	<b>EB1CDB</b>	<b>- COMPONENT DESIGN BASIS INSPECTION</b>	<b>5</b>			
1, 2, 3	IP 7111121	Component Design Bases Inspection		10/30/2006	11/03/2006	Baseline Inspections
1, 2, 3	IP 7111121	Component Design Bases Inspection		11/13/2006	11/17/2006	Baseline Inspections
1, 2, 3	IP 7111121	Component Design Bases Inspection		11/27/2006	12/01/2006	Baseline Inspections
1, 2, 3	IP 7111121	Component Design Bases Inspection		12/04/2006	12/08/2006	Baseline Inspections
	<b>EB3 BF1</b>	<b>- LICENSE RENEWAL FOLLOWUP U1</b>	<b>1</b>			
1	IP 92701	Followup		12/03/2006	12/07/2006	Other Routine
	<b>OL RQ</b>	<b>- REQUAL INSPECTION</b>	<b>2</b>			
1, 2, 3	IP 7111111B	Licensed Operator Requalification Program		12/04/2006	12/08/2006	Baseline Inspections
	<b>EB2 BF1</b>	<b>- EQ, PIECE PARTS</b>	<b>1</b>			
1	IP 37551	Onsite Engineering		01/08/2007	01/12/2007	Other Routine
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL PRE-INSP VISIT</b>	<b>1</b>			
1, 2, 3	IP 7112101	Access Control to Radiologically Significant Areas		01/29/2007	01/31/2007	Baseline Inspections
	<b>EB3-MR</b>	<b>- MR EFFECTIVENESS</b>	<b>2</b>			
1, 2, 3	IP 7111112B	Maintenance Effectiveness		02/05/2007	02/09/2007	Baseline Inspections
	<b>DRP/BR6</b>	<b>- ORAT INSPECTION FOR UNIT 1</b>	<b>5</b>			
1	IP 93806	Operational Readiness Assessment Team		02/01/2007	02/15/2007	Other Routine
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASELINE INSP WEEK 1</b>	<b>3</b>			
1, 2, 3	IP 7112101	Access Control to Radiologically Significant Areas		02/26/2007	03/02/2007	Baseline Inspections
1, 2, 3	IP 7112102	ALARA Planning and Controls		02/26/2007	03/02/2007	Baseline Inspections
1, 2, 3	IP 7112202	Radioactive Material Processing and Transportation		02/26/2007	03/02/2007	Baseline Inspections
1, 2, 3	IP 71151	Performance Indicator Verification		02/26/2007	03/02/2007	Baseline Inspections
	<b>EB3-ISI</b>	<b>- U2 INSERVICE INSPECTION</b>	<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/05/2007	03/09/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASELINE INSP WEEK 2</b>	<b>3</b>			
1, 2, 3	IP 7112101	Access Control to Radiologically Significant Areas		03/19/2007	03/23/2007	Baseline Inspections
1, 2, 3	IP 7112102	ALARA Planning and Controls		03/19/2007	03/23/2007	Baseline Inspections
1, 2, 3	IP 7112202	Radioactive Material Processing and Transportation		03/19/2007	03/23/2007	Baseline Inspections
1, 2, 3	IP 71151	Performance Indicator Verification		03/19/2007	03/23/2007	Baseline Inspections
	<b>PS2-EP</b>	<b>- EP EXERCISE</b>	<b>2</b>			
1, 2, 3	IP 7111401	Exercise Evaluation		07/23/2007	07/27/2007	Baseline Inspections

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	<b>PS2-EP</b>	<b>- EP EXERCISE</b>	<b>2</b>			
1, 2, 3	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/23/2007	07/27/2007	Baseline Inspections
1, 2, 3	IP 71151	Performance Indicator Verification		07/23/2007	07/27/2007	Baseline Inspections
	<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	<b>4</b>			
1, 2, 3	IP 71152B	Identification and Resolution of Problems		08/06/2007	08/10/2007	Baseline Inspections
1, 2, 3	IP 71152B	Identification and Resolution of Problems		08/20/2007	08/24/2007	Baseline Inspections
	<b>OL PREP</b>	<b>- INITIAL EXAM PREP</b>	<b>6</b>			
1	V23231	BROWNS FERRY/EXAMS AT POWER FACILITIES		08/20/2007	08/31/2007	Not Applicable
	<b>OL EXAM</b>	<b>- INITIAL EXAM WEEK 1</b>	<b>3</b>			
1	V23231	BROWNS FERRY/EXAMS AT POWER FACILITIES		09/24/2007	10/05/2007	Not Applicable