



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
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ARLINGTON, TEXAS 76011-4005

March 2, 2005

Joseph E. Venable  
Vice President Operations  
Waterford 3  
Entergy Operations, Inc.  
17265 River Road  
Killona, LA 70066-0751

SUBJECT: ANNUAL ASSESSMENT LETTER - WATERFORD 3 STEAM ELECTRIC STATION  
(NRC REPORT 05000382/2005001)

Dear Mr. Venable:

On February 1, 2004, the NRC staff completed its end-of-cycle plant performance assessment of Waterford 3 Steam Electric Station. The end-of-cycle review for Waterford 3 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 so that you will have 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 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 resultant inspection plan.

Overall, Waterford 3 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix, based on an inspection finding being classified as having low to moderate safety significance (White). This finding, which affected the mitigating systems cornerstone, involved the failure to establish appropriate instructions and accomplish those instructions for installation of a fuel line for the Train A emergency diesel generator in May 2003. This ultimately rendered the Train A emergency diesel generator inoperable. The corrective actions in response to this finding were completed in the third quarter of the assessment period. The NRC staff performed a supplemental inspection and verified the adequacy of these corrective actions. As a result, this White finding was closed on December 31, 2004.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2006. In addition to conducting reactor oversight process baseline inspections at your facility through September 30, 2006, we also plan to conduct Temporary Instruction 2515/160, "Pressurizer Penetration and Steam Space Piping

Connections in U.S. Pressurized Water Reactors,” and Inspection Procedure 71004, “Power Uprate,” which will evaluate changes made to the plant to support the proposed power uprate. 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 9 months of the inspection plan are tentative and may be revised at the midcycle 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 documents systems (ADAMS). ADAMS is accessible from the NRC Website 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 William B. Jones at 817/860-8147 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Arthur T. Howell III, Director  
Division of Reactor Projects

Docket: 50-382  
License: NPF-38

Enclosure:  
Waterford 3 Steam Electric Station  
Inspection/Activity Plan

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SISP Review Completed:   ATH   ADAMS: / Yes    G No    Initials:   ATH    
 / Publicly Available    G Non-Publicly Available    G Sensitive    / Non-Sensitive

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RIV:DRP/E	D:DRS	D:DRP		
WBJones;mjs	DDChamberlain	ATHowell III		
<i>/RA/</i>	<i>/RA/</i>	<i>/RA/</i>		
2/23/05	2/23/05	3/2/05		

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**Waterford**  
**Inspection / Activity Plan**  
**03/04/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>RP TEAM - RP TEAM INSPECTION</b>		<b>4</b>			
3	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/28/2005	03/04/2005	Baseline Inspections
3	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/28/2005	03/04/2005	Baseline Inspections
3	IP 7112202	Radioactive Material Processing and Transportation		02/28/2005	03/04/2005	Baseline Inspections
3	IP 7112203	Radiological Environmental Monitoring Program		02/28/2005	03/04/2005	Baseline Inspections
	<b>IP 71004 - POWER UPRATE INSP</b>		<b>1</b>			
3	IP 71004	Power Uprate		04/07/2005	05/31/2005	Other Routine
	<b>TI 160 - TI 160 PZR PENE &amp; SSTM SPACE PIPING CONN</b>		<b>1</b>			
3	IP 2515/160	Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		04/07/2005	05/31/2005	Safety Issues
	<b>ACRSA - ACCESS CONTROL TO RAD SIGNIFICANT AREAS</b>		<b>1</b>			
3	IP 7112101	Access Control to Radiologically Significant Areas		04/18/2005	04/22/2005	Baseline Inspections
	<b>EB08P - ISI - REQUIRES VOLUMETRIC TI 150/152</b>		<b>1</b>			
3	IP 7111108P	Inservice Inspection Activities - PWR		04/25/2005	04/29/2005	Baseline Inspections
3	IP 7111108P	Inservice Inspection Activities - PWR		05/02/2005	05/06/2005	Baseline Inspections
	<b>ALARA2 - ALARA PLANNING AND CONTROLS</b>		<b>1</b>			
3	IP 7112102	ALARA Planning and Controls		04/25/2005	04/29/2005	Baseline Inspections
	<b>OB-RQ - REQUAL INSPECTION</b>		<b>3</b>			
3	IP 7111111B	Licensed Operator Requalification Program		08/15/2005	08/19/2005	Baseline Inspections
	<b>ALARA3 - ALARA PLANNING AND CONTROLS</b>		<b>1</b>			
3	IP 7112102	ALARA Planning and Controls		09/26/2005	09/30/2005	Baseline Inspections
	<b>PEB-12B - MAINTENANCE RULE BIENNIAL</b>		<b>1</b>			
3	IP 7111112B	Maintenance Effectiveness		10/03/2005	10/07/2005	Baseline Inspections
	<b>OB-EP EX - EMERG PREPAREDNESS EXERCISE</b>		<b>4</b>			
3	IP 7111401	Exercise Evaluation		12/05/2005	12/09/2005	Baseline Inspections
3	IP 7111404	Emergency Action Level and Emergency Plan Changes		12/05/2005	12/09/2005	Baseline Inspections
3	IP 71151	Performance Indicator Verification		12/05/2005	12/09/2005	Baseline Inspections
	<b>PEB - W3 PIR INSPECTION</b>		<b>3</b>			
3	IP 71152B	Identification and Resolution of Problems		03/06/2006	03/10/2006	Baseline Inspections
3	IP 71152B	Identification and Resolution of Problems		03/20/2006	03/24/2006	Baseline Inspections
	<b>EB - PERMANENT PLANT MODS</b>		<b>3</b>			
3	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/19/2006	06/23/2006	Baseline Inspections
3	IP 7111117B	Permanent Plant Modifications		06/19/2006	06/23/2006	Baseline Inspections
	<b>ALARA1 - ALARA PLANNING AND CONTROLS</b>		<b>1</b>			
3	IP 7112102	ALARA Planning and Controls		06/26/2006	06/30/2006	Baseline Inspections

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

**Waterford**  
**Inspection / Activity Plan**  
**03/04/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>OB-INIT</b>	<b>- WAT INITIAL EXAM</b>	<b>3</b>			
3	X02295	WAT INITIAL EXAM (08/06)		07/24/2006	07/28/2006	Not Applicable
3	X02295	WAT INITIAL EXAM (08/06)		08/14/2006	08/18/2006	Not Applicable
	<b>PEB-05T</b>	<b>- TRIENNIAL FIRE PROTECTION</b>	<b>4</b>			
3	IP 7111105T	Fire Protection		08/07/2006	08/11/2006	Baseline Inspections
3	IP 7111105T	Fire Protection		08/21/2006	08/25/2006	Baseline Inspections
	<b>PEB</b>	<b>- HX PERFORMANCE</b>	<b>1</b>			
3	IP 7111107B	Heat Sink Performance		08/14/2006	08/21/2006	Baseline Inspections