



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

September 1, 2010

Joseph Kowalewski, Vice President, Operations  
Entergy Operations, Inc.  
Waterford Steam Electric Station, Unit 3  
17265 River Road  
Killona, LA 70057-0751

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
WATERFORD STEAM ELECTRIC STATION, UNIT 3

Dear Mr. Kowalewski:

On August 10, 2010, the NRC staff completed its performance review of the Waterford Steam Electric Station, Unit 3. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. 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 security information. A separate letter designated and marked as "Official Use Only—Security-Related Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix, based on one White finding in the Mitigating Systems Cornerstone. The finding involved the failure to follow plant procedures which led to the inoperability of the train B 125 Vdc battery.

On January 14, 2010, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection in April 2010, to review the actions taken to address the finding described above. The supplemental inspection was conducted during the last quarter from April 19 through June 30, 2010, using Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." In general, the inspectors determined that you performed an adequate evaluation of the White finding. Your evaluation identified the cause of the condition as a failure to maintain plant configuration control due to a lack of specific work instructions and a lack of work order documentation to track the status of the intercell connectors that were loosened or removed. The inspectors determined that your staff planned and implemented the appropriate corrective actions to address the root cause and contributing causes. In accordance with Manual Chapter 0305, since this violation was open for four quarters, and the supplemental inspection has been completed satisfactorily, Waterford Steam Electric Station, Unit 3, will return to the Licensee Response Column for the third calendar quarter of 2010.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2011. In addition to baseline inspections, we also plan on implementing Inspection Procedure 71007, "Reactor Vessel Head Replacement Inspection,"

and Inspection Procedure 50001, "Steam Generator Replacement Inspection." 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 end-of-cycle review.

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 Mr. Ray Azua, Senior Project Engineer, Project Branch E, at (817) 276-4445 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

A handwritten signature in black ink, appearing to read "Anton Vogel". The signature is fluid and cursive, with a large initial "A" and "V".

Anton Vogel, Acting Director  
Division of Reactor Projects

Docket Nos. 50-382  
License Nos. NPF-38

Enclosure:  
Waterford Steam Electric Station, Unit 3 Inspection/Activity Plan

cc w\Enclosure  
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R:\ Reactors\EOC and Midcycle\Midcycle Assessment Letters\2010\

ADAMS: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> SUNSI Review Complete	Reviewer Initials: RVA	
		<input checked="" type="checkbox"/> Publicly Available	<input checked="" type="checkbox"/> Non-Sensitive	
		<input type="checkbox"/> Non-publicly Available	<input type="checkbox"/> Sensitive	
RIV/SPE/DRP/E	C:DRP/E	D:DRS	D:DRP	
RAzua	JAClark	RJCaniano	AVegel	
<b>/RA/</b>	<b>/RA/RCHfor</b>	<b>/RA/</b>	<b>/RA/</b>	
08/23/2010	08/24/2010	08/24/2010	08/30/2010	

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T=Telephone

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## Waterford

## Inspection / Activity Plan

10/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
3	10/04/2010	10/08/2010	<b>EXAM</b> X02447	<b>- INITIAL EXAM</b> INITIAL EXAM- W3 (10/2010)	2
3	11/15/2010	11/19/2010	<b>RS123</b> IP 2515/179	<b>- OCCUPATIONAL RADIATION SAFETY</b> Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	2
3	11/15/2010	11/19/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3	11/15/2010	11/19/2010	IP 71124.02	Occupational ALARA Planning and Controls	
3	11/15/2010	11/19/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
3	11/15/2010	11/19/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
3	02/21/2011	02/25/2011	<b>EXAM</b> X02466	<b>- INITIAL OPERATOR EXAM</b> INITIAL EXAM - WATERFORD 3 - (03/2011)	3
3	03/21/2011	03/25/2011	X02466	INITIAL EXAM - WATERFORD 3 - (03/2011)	
3	04/04/2011	04/29/2011	<b>PSB2-08P</b> IP 7111108P	<b>- INSERVICE INSPECTION</b> Inservice Inspection Activities - PWR	4
3	04/25/2011	04/29/2011	<b>RS123</b> IP 71124.01	<b>- RADIATION SAFETY</b> Radiological Hazard Assessment and Exposure Controls	2
3	04/25/2011	04/29/2011	IP 71124.02	Occupational ALARA Planning and Controls	
3	04/25/2011	04/29/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
3	04/25/2011	04/29/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
3	04/25/2011	04/29/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
3	08/01/2011	09/02/2011	<b>EB1-21</b> IP 7111121	<b>- COMPONENT DESIGN BASIS INSPECTION</b> Component Design Bases Inspection	1
3	11/14/2011	11/18/2011	<b>RS678</b> IP 71124.06	<b>- RADIATION SAFETY</b> Radioactive Gaseous and Liquid Effluent Treatment	3
3	11/14/2011	11/18/2011	IP 71124.07	Radiological Environmental Monitoring Program	
3	11/14/2011	11/18/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
3	12/05/2011	12/09/2011	<b>EPI</b> IP 7111401	<b>- BIENNIAL EP EXERCISE INSPECTION</b> Exercise Evaluation	2
3	12/05/2011	12/09/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3	12/05/2011	12/09/2011	IP 71151-EP01	Drill/Exercise Performance	
3	12/05/2011	12/09/2011	IP 71151-EP02	ERO Drill Participation	
3	12/05/2011	12/09/2011	IP 71151-EP03	Alert & Notification System	
3	12/05/2011	12/09/2011	<b>EB1-07</b> IP 7111107T	<b>- TRIENNIAL HEAT SINK PERFORMANCE</b> Heat Sink Performance	1

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