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

March 4, 2011

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR WATERFORD STEAM ELECTRIC STATION, UNIT 3 (REPORT 05000382/2011001)

Dear Mr. Kowalewski:

On February 10, 2011, the NRC completed its end-of-cycle performance review of the Waterford Steam Electric Station, Unit 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2010, through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, the Waterford Steam Electric Station, Unit 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at the Waterford Steam Electric Station, Unit 3 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. Temporary Instruction 2515/177 Inspection, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," which remains to be scheduled, will be completed during the 2011 or 2012 calendar year. Regional personnel will contact you to establish an appropriate time for this activity.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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).

Please contact Jeffrey A. Clark at 817-860-8147 with any questions you have regarding this letter.

Sincerely,

Kriss M. Kennedy, Director
Division of Reactor Projects

Docket No. 50-382
License No. NPF-38

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

cc: Distribution via ListServ

Waterford
Inspection / Activity Plan
03/01/2011 - 06/30/2012

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			EXAM	**- INITIAL OPERATOR EXAM**	**3**
3	03/21/2011	03/25/2011	X02466	INITIAL EXAM - WATERFORD 3 - (03/2011)	
			PSB2-08P	**- INSERVICE INSPECTION**	**2**
3	04/11/2011	04/15/2011	IP 7111108P	Inservice Inspection Activities - PWR	
3	04/25/2011	04/29/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			RS123	**- RADIATION SAFETY**	**2**
3	04/25/2011	04/29/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
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	
			BRQ	**- OPERATOR REQUAL INSPECTION**	**4**
3	07/18/2011	07/22/2011	IP 7111111B	Licensed Operator Requalification Program	
			EB1-21	**- COMPONENT DESIGN BASIS INSPECTION**	**4**
3	09/05/2011	10/07/2011	IP 7111121	Component Design Bases Inspection	
			RS678	**- RADIATION SAFETY**	**3**
3	11/14/2011	11/18/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
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	
			EP1	**- BIENNIAL EP EXERCISE INSPECTION**	**2**
3	12/05/2011	12/09/2011	IP 7111401	Exercise Evaluation	
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	Performance Indicator Verification	
			EB1-07	**- TRIENNIAL HEAT SINK PERFORMANCE**	**1**
3	12/12/2011	12/16/2011	IP 7111107T	Heat Sink Performance	
			EB2-05T	**- TRIENNIAL FIRE PROTECTION INSPECTION**	**4**
3	02/13/2012	02/17/2012	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
3	03/05/2012	03/09/2012	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
			RS12	**- RADIATION SAFETY**	**1**
3	02/06/2012	02/10/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3	02/06/2012	02/10/2012	IP 71124.02	Occupational ALARA Planning and Controls	
3	02/06/2012	02/10/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
3	02/06/2012	02/10/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			RS34	**- RADIATION SAFETY**	**2**
3	06/04/2012	06/08/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

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

Waterford
Inspection / Activity Plan
03/01/2011 - 06/30/2012

Unit Number	Planned Dates Start	End	Inspection Activity	Title	No. of Staff on Site
			RS34	**- RADIATION SAFETY**	**2**
3	06/04/2012	06/08/2012	IP 71124.04	Occupational Dose Assessment	

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