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

August 31, 2007

Kevin T. Walsh
Vice President Operations
Waterford Steam Electric Station, Unit 3
Entergy Operations, Inc.
17265 River Rd.
Killona, AR 70057-3093

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

Dear Mr. Walsh:

On August 8, 2007, the NRC staff completed its performance review of Waterford Steam Electric Station, Unit 3 for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 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 enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Waterford Steam Electric Station, Unit 3 was within 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 baseline inspections at your facility. In addition, we plan to follow up on your inspection activities associated with the steam generator batwing supports during the mid-cycle outage scheduled to begin on October 7, 2007.

The enclosed inspection plan details the inspections, except those related to security scheduled through December 31, 2008. 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).

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 817-860-8147 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

Jeff Clark, Chief
Reactor Projects Branch E
Division of Reactor Projects

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

Enclosure: Waterford 3 Inspection/Activity Plan

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SUNSI Review Completed: _JAC__ ADAMS: √ Yes ☐ No Initials: JAC_____
√ Publicly Available ☐ Non-Publicly Available ☐ Sensitive √ Non-Sensitive

R:_REACTORS\EOC and Midcycle\Midcycle Assessment Letters\2007\WT.wpd

RIV:SPE/DRP/E	C:DRP/E	D:DRS	D:DRP	C:DRP/E signature
GDReplogle;mjs	JAClark	DDChamberlain	ATHowell	JAClark
/RA/	GDReplogle for	RJCaniano for	/RA/	
8/17/07	8/17/07	8/17/07	8/19/07	8/21/07

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Waterford
Inspection / Activity Plan
09/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EP1	**- EMERG PREP EXERCISE**	**3**			
3	IP 7111401	Exercise Evaluation		12/03/2007	12/07/2007	Baseline Inspections
3	IP 7111404	Emergency Action Level and Emergency Plan Changes		12/03/2007	12/07/2007	Baseline Inspections
3	IP 71151	Performance Indicator Verification		12/03/2007	12/07/2007	Baseline Inspections
	RP-ORS4	**- OCCUPATIONAL RADIATION SAFETY-ALARA**	**1**			
3	IP 7112101	Access Control to Radiologically Significant Areas		12/10/2007	12/14/2007	Baseline Inspections
3	IP 7112102	ALARA Planning and Controls		12/10/2007	12/14/2007	Baseline Inspections
3	IP 71151	Performance Indicator Verification		12/10/2007	12/14/2007	Baseline Inspections
	EXAM	**- INITIAL EXAMINATION**	**3**			
3	X02382	WATERFORD-3 INITIAL EXAM (03/2008)		02/25/2008	02/29/2008	Not Applicable
3	X02382	WATERFORD-3 INITIAL EXAM (03/2008)		03/24/2008	03/28/2008	Not Applicable
	EB1-08	**- INSERVICE INSPECTION ACTIVITIES**	**2**			
3	IP 7111108P	Inservice Inspection Activities - PWR		05/05/2008	05/09/2008	Baseline Inspections
3	IP 7111108P	Inservice Inspection Activities - PWR		05/19/2008	05/23/2008	Baseline Inspections
	RP-ORS1	**- OCCUPATIONAL RADIATION SAFETY-ACCESS**	**1**			
3	IP 7112101	Access Control to Radiologically Significant Areas		05/05/2008	05/09/2008	Baseline Inspections
3	IP 7112102	ALARA Planning and Controls		05/05/2008	05/09/2008	Baseline Inspections
3	IP 71151-OR01	Occupational Exposure Control Effectiveness		05/05/2008	05/09/2008	Baseline Inspections
3	IP 71151-PR01	RETS/ODCM Radiological Effluent		05/05/2008	05/09/2008	Baseline Inspections
	RP-ORS2	**- OCCUPATIONAL RADIATION SAFETY-ALARA**	**1**			
3	IP 7112101	Access Control to Radiologically Significant Areas		05/12/2008	05/16/2008	Baseline Inspections
3	IP 7112102	ALARA Planning and Controls		05/12/2008	05/16/2008	Baseline Inspections
3	IP 71151-OR01	Occupational Exposure Control Effectiveness		05/12/2008	05/16/2008	Baseline Inspections
3	IP 71151-PR01	RETS/ODCM Radiological Effluent		05/12/2008	05/16/2008	Baseline Inspections
	EB1-2/17	**- 50.59 & PERMANENT PLANT MODS**	**3**			
3	IP 7111102	Evaluation of Changes, Tests, or Experiments		07/07/2008	07/11/2008	Baseline Inspections
3	IP 7111117B	Permanent Plant Modifications		07/07/2008	07/11/2008	Baseline Inspections
	ORS3	**- OCCUPATIONAL RADIATION SAFETY - ALARA**	**1**			
3	IP 7112101	Access Control to Radiologically Significant Areas		07/28/2008	08/01/2008	Baseline Inspections
3	IP 7112102	ALARA Planning and Controls		07/28/2008	08/01/2008	Baseline Inspections
3	IP 71151-OR01	Occupational Exposure Control Effectiveness		07/28/2008	08/01/2008	Baseline Inspections
3	IP 71151-PR01	RETS/ODCM Radiological Effluent		07/28/2008	08/01/2008	Baseline Inspections
	EB2-07B	**- BIENNIAL HEAT SINK INSPECTION**	**1**			
3	IP 7111107B	Heat Sink Performance		09/15/2008	09/19/2008	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
09/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	End	Inspection Type
	EB2-52B	**- BIENNIAL PI&R INSPECTION**	**4**			
3	IP 71152B	Identification and Resolution of Problems		10/06/2008	10/10/2008	Baseline Inspections
3	IP 71152B	Identification and Resolution of Problems		10/27/2008	10/31/2008	Baseline Inspections
	EP2	**- EP PROGRAM**	**1**			
3	IP 7111402	Alert and Notification System Testing		11/17/2008	11/21/2008	Baseline Inspections
3	IP 7111403	Emergency Response Organization Augmentation Testing		11/17/2008	11/21/2008	Baseline Inspections
3	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/17/2008	11/21/2008	Baseline Inspections
3	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		11/17/2008	11/21/2008	Baseline Inspections
3	IP 71151-EP01	Drill/Exercise Performance		11/17/2008	11/21/2008	Baseline Inspections
3	IP 71151-EP02	ERO Drill Participation		11/17/2008	11/21/2008	Baseline Inspections
3	IP 71151-EP03	Alert & Notification System		11/17/2008	11/21/2008	Baseline Inspections

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This report shows only on-site and announced inspection procedures.