



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
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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.

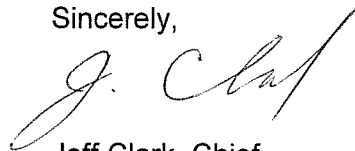
The enclosed inspection plan details the inspections, except those related to security scheduled through December 31, 2008. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident 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

cc w/Enclosure:

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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  |
|-----------------|-----------------|---------------|----------|--------------------|
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| 8/17/07         | 8/17/07         | 8/17/07       | 8/19/07  | 8/21/07            |

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| Unit Number | Inspection Activity                                   | Title  | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|---|--|----------------------|---------------------|-------------------|----------------------|
|             | <b>EP1 - EMERG PREP EXERCISE</b>                      |  | 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 |
|             | <b>RP-ORS4 - OCCUPATIONAL RADIATION SAFETY-ALARA</b>  |  | 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 |
|             | <b>EXAM - INITIAL EXAMINATION</b>                     |  | 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       |
|             | <b>EB1-08 - INSERVICE INSPECTION ACTIVITIES</b>       |  | 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 |
|             | <b>RP-ORS1 - OCCUPATIONAL RADIATION SAFETY-ACCESS</b> |  | 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 |
|             | <b>RP-ORS2 - OCCUPATIONAL RADIATION SAFETY-ALARA</b>  |  | 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 |
|             | <b>EB1-217 - 50.59 &amp; PERMANENT PLANT MODS</b>     |  | 3                    |                     |                   |                      |
| 3           | IP 7111102  | Evaluation of Changes, Tests, or Experiments       |                      | 07/07/2008          | 07/11/2008        | Baseline Inspections |
| 3           | IP 711117B  | Permanent Plant Modifications                      |                      | 07/07/2008          | 07/11/2008        | Baseline Inspections |
|             | <b>ORS3 - OCCUPATIONAL RADIATION SAFETY - ALARA</b>   |  | 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 |
|             | <b>EB2-07B - BIENNIAL HEAT SINK INSPECTION</b>        |  | 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.

| Unit Number | Inspection Activity                           | Title  | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|---|--|----------------------|---------------------|-------------------|----------------------|
|             | <b>EB2-52B - BIENNIAL PI&amp;R INSPECTION</b> |  | 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 |
|             | <b>EP2 - EP PROGRAM</b>                       |  | 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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