



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

September 1, 2010

Brad Berryman
Acting Vice President, Operations
Entergy Operations, Inc.
Arkansas Nuclear One
1448 S.R. 333
Russellville, AR 72802

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –
ARKANSAS NUCLEAR ONE

Dear Mr. Berryman:

On August 10, 2010, the NRC staff completed its performance review of Arkansas Nuclear One. 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 at Arkansas Nuclear One Units 1 and 2 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 Performance Indicators indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting Inspection Procedure 92723, "Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violation in the Same Area in a 12-Month Period," to follow-up on the multiple Severity Level IV violations identified in the traditional enforcement area of impeding the regulatory process.

In our annual assessment letter, dated March 3, 2010, we advised you of a substantive crosscutting theme in the area of problem identification and resolution, specifically in the area involving the thoroughness of problem evaluation [P.1(c)]. However, due to the recent nature of this performance trend and the fact you had placed this into your corrective action program and were developing plans to address the theme, the staff did not identify a substantive crosscutting issue in this area. During this assessment period, we monitored the effectiveness of your

corrective actions. We found these actions to have been appropriate in that only one finding with this theme was identified during the last six months of this assessment period.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2011. 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,



for Jeffrey Clark, P.E.
Chief, Reactor Projects Branch E
Division of Reactor Projects

Docket Nos. 50-313, 50-368
License Nos. DPR-51, NPF-6

Enclosure:
Arkansas Nuclear One, Units 1 and 2, Inspection/Activity Plan

cc w/Enclosure:

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R:_Reactors\EOC and Midcycle\Midcycle Assessment Letters\2010\

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|--|-------------------|---|---|--|
| 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 | |
| /RA/ | /RA/RCHfor | /RA/ | /RA/ | |
| 08/23/2010 | 08/24/2010 | 08/24/2010 | 08/30/2010 | |

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

Arkansas Nuclear One
 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 |
|-------------|---------------------|-------------------|--|---|----------------------|
| 2 | 12/13/2010 | 12/17/2010 | EXAM - INITIAL OPERATOR EXAM X02464 | INITIAL EXAM - UNIT 2 - ANO (02/2011) | 3 |
| 2 | 01/31/2011 | 02/04/2011 | X02464 | INITIAL EXAM - UNIT 2 - ANO (02/2011) | |
| 1, 2 | 01/17/2011 | 02/04/2011 | TSB-52B IP 71152B | - BIENNIAL PI&R Identification and Resolution of Problems | 2 |
| 2 | 02/28/2011 | 03/25/2011 | PSB2-08P IP 7111108P | - INSERVICE INSPECTION - U2 Inservice Inspection Activities - PWR | 3 |
| 1, 2 | 03/07/2011 | 03/11/2011 | RP123 IP 71124.01 | - RADIATION SAFETY Radiological Hazard Assessment and Exposure Controls | 4 |
| 1, 2 | 03/07/2011 | 03/11/2011 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1, 2 | 03/07/2011 | 03/11/2011 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1, 2 | 03/07/2011 | 03/11/2011 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 1, 2 | 03/07/2011 | 03/11/2011 | IP 71151-PR01 | RETS/ODCM Radiological Effluent | |
| 1 | 08/29/2011 | 09/02/2011 | EXAM X02478 | - INITIAL OPERATOR EXAM INITIAL EXAM - UNIT 1 - ANO (10/2011) | 3 |
| 1 | 10/03/2011 | 10/07/2011 | X02478 | INITIAL EXAM - UNIT 1 - ANO (10/2011) | |
| 1, 2 | 06/13/2011 | 06/24/2011 | EB1-17 IP 7111117T | - 50.59 AND MODS Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications | 1 |
| 1, 2 | 08/01/2011 | 08/05/2011 | RS45 IP 71124.04 | - RADIATION SAFETY Occupational Dose Assessment | 2 |
| 1, 2 | 08/01/2011 | 08/05/2011 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1 | 09/26/2011 | 10/14/2011 | PSB2-08P IP 7111108P | - INSERVICE INSPECTION - U1 Inservice Inspection Activities - PWR | 1 |

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