



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\

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	

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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		3
			X02464	INITIAL EXAM - UNIT 2 - ANO (02/2011)	
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 - BIENNIAL PI&R	Identification and Resolution of Problems	2
			IP 71152B		
2	02/28/2011	03/25/2011	PSB2-08P - INSERVICE INSPECTION - U2	Inservice Inspection Activities - PWR	3
			IP 7111108P		
1, 2	03/07/2011	03/11/2011	RP123 - RADIATION SAFETY		4
			IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
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 - INITIAL OPERATOR EXAM		3
			X02478	INITIAL EXAM - UNIT 1 - ANO (10/2011)	
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 - 50.59 AND MODS	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	1
			IP 7111117T		
1, 2	08/01/2011	08/05/2011	RS45 - RADIATION SAFETY		2
			IP 71124.04	Occupational Dose Assessment	
1, 2	08/01/2011	08/05/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1	09/26/2011	10/14/2011	PSB2-08P - INSERVICE INSPECTION - U1	Inservice Inspection Activities - PWR	1
			IP 7111108P		

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