



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION IV  
1600 E. LAMAR BLVD.  
ARLINGTON, TX 76011-4511

March 4, 2014

Jeremy Browning, Site Vice President  
Arkansas Nuclear One  
Entergy Operations, Inc.  
1448 SR 333  
Russellville, AR 72802-0967

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR ARKANSAS NUCLEAR ONE UNITS 1  
AND 2 (REPORT 05000313/2013001 AND 05000368/2013001)**

Dear Mr. Browning:

On February 13, 2014, the NRC completed its end-of-cycle performance review of the Arkansas Nuclear One, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2013, through December 31, 2013. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Arkansas Nuclear One, Units 1 and 2, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at the Arkansas Nuclear One, Units 1 and 2, 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 Performance Indicators (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.

Although plant performance was within the Licensee Response Column, the NRC is still evaluating potential greater than green issues related to unresolved items identified in Augmented Inspection Team report 05000313/2013011; 05000368/2013011 following the Unit 1 stator drop event. These issues will be documented in the Augmented Inspection Team Follow-up report 05000313/2013012; 05000368/2013012. The final safety significance determination associated with any findings may affect the NRC's assessment of plant performance and the enclosed inspection plan.

The enclosed inspection plan lists the inspections scheduled through June 30, 2015. 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. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised effective January 1, 2014. New cross-cutting aspects will be coded in accordance with the latest revision to NRC Inspection Manual Chapter (IMC) 0310, dated December 19, 2013. Cross-cutting aspects identified in the last six months of 2013 using the previous terminology will be converted to the revised language in accordance with the cross-reference in IMC 0310. The revised cross-cutting aspects will be evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305 starting with the calendar year 2014 mid-cycle assessment.

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 me at 817-200-1574 with any questions you have regarding this letter.

Sincerely,

/RA/

Gregory E. Werner, Acting Chief  
Project Branch E  
Division of Reactor Projects

Docket Nos.: 50-313, 50-368  
License Nos: DRP-51; NPF-6

Enclosure:  
Inspection Plan

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ADAMS: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> SUNSI Review Complete	Reviewer Initials: GEW
		<input checked="" type="checkbox"/> Publicly Available	<input checked="" type="checkbox"/> Non-Sensitive GEW
		<input type="checkbox"/> Non-publicly Available	<input type="checkbox"/> Sensitive
AC:DRP/PBE	AD:DRS	D:DRP	
<b>G. Werner</b>	<b>J. Clark</b>	<b>K. Kennedy</b>	
/RA/	/RA/	/RA/	
<b>02/25/2014</b>	<b>02/28/2014</b>	<b>02/28/2014</b>	

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Arkansas Nuclear One  
 Inspection / Activity Plan  
 03/01/2014 - 06/30/2015

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>EXAM - INITIAL OPERATOR EXAM</b>		3
	10/20/2014	10/24/2014	X02531	INITIAL EXAM-ANO UNIT 1 (1/1/15)	
	11/17/2014	11/21/2014	X02531	INITIAL EXAM- ANO UNIT 1 (1/1/15)	
			<b>EXAM - INITIAL LICENSE EXAM</b>		1
	11/11/2013	11/11/2014	X02531	INITIAL EXAM-ANO UNIT 1 (1/1/15)	
			<b>EXAM - INITIAL OPERATOR EXAM - UNIT 2</b>		1
2	01/01/2014	12/31/2014	X02521	INITIAL EXAM-ANO UNIT 2 (04/2014)	
			<b>RS 12 PI - RADIATION SAFETY</b>		2
1,2	03/17/2014	03/21/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>RS 5678 - RADIATION SAFETY - TEAM</b>		5
1,2	05/12/2014	05/16/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	05/12/2014	05/16/2014	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	05/12/2014	05/16/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	05/12/2014	05/16/2014	IP 71124.07	Radiological Environmental Monitoring Program	
1,2	05/12/2014	05/16/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	05/12/2014	05/16/2014	IP 71151-0R01	Occupational Exposure Control Effectiveness	
1,2	05/12/2014	05/16/2014	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>71111.08 - ANO U2 INSERVICE INSPECTION</b>		
2	05/19/2014	05/30/2014	IP 7111108P	Inservice Inspection Activities- PWR	
			<b>INSP - BIENNIAL REQUAL INSPECTION</b>		4
1,2	07/07/2014	07/11/2014	IP 71111118	Licensed Operator Requalification Program	
			<b>EB1-17T - TRIENNIAL PERM PLANT MODS &amp; 50.59</b>		5
1,2	07/28/2014	08/08/2014	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>EP-1 - EP PERFORMANCE INDICATORS</b>		2
1,2	09/15/2014	09/19/2014	IP 71151-EP01	Drill/Exercise Performance	
1,2	09/15/2014	09/19/2014	IP 71151-EP02	ERO Drill Participation	
1,2	09/15/2014	09/19/2014	IP 71151-EP03	Alert & Notification System	
			<b>EP-3 - BIENNIAL EXERCISE INSPECTION HAB</b>		5
1,2	09/15/2014	09/19/2014	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	09/15/2014	09/19/2014	IP 7111407	Exercise Evaluation- Hostile Action (HA) Event	
			<b>EB2-03 - POST-APPROVAL LICENSE RENEWAL (FOLLOWUP)</b>		2
1,2	12/01/2014	12/05/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>RS 13 PI - RADIATION SAFETY</b>		2
1,2	02/02/2015	02/06/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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

Enclosure

Arkansas Nuclear One  
 Inspection / Activity Plan  
 03/01/2014 - 06/30/2015

Unit Number	Planned Dates Start	Planned Dates End	Activity	Title	No. of Staff on Site
			RS 13 PI - RADIATION SAFETY		2
1,2	02/02/2015	02/06/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	02/02/2015	02/06/2015	IP 71151-0R01	Occupational Exposure Control Effectiveness	
1,2	02/02/2015	02/06/2015	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			TSB 528 - BIENNIAL PI&R INSPECTION		4
1,2	03/09/2015	03/13/2015	IP 711528	Problem Identification and Resolution	
1,2	03/23/2015	03/27/2015	IP 711528	Problem Identification and Resolution	
			RS24 - RADIATION SAFETY		2
1,2	06/22/2015	06/26/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	06/22/2015	06/26/2015	IP 71124.04	Occupational Dose Assessment	

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