



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

September 1, 2011

Christopher J. Schwarz, Site Vice President  
Arkansas Nuclear One  
Entergy Operations, Inc.  
1448 S.R. 333  
Russellville, AR 72802-0967

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
ARKANSAS NUCLEAR ONE, UNITS 1 AND 2**

Dear Mr. Schwarz:

On August 18, 2011, the NRC completed its mid-cycle performance review of 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 July 1, 2010 through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

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

The NRC identified cross-cutting themes associated with findings that involved the use of conservative assumptions in decision making [H.1(b)] and management oversight of work practices [H.4(c)]. These cross-cutting themes were previously identified in the Annual Assessment Letter, dated March 4, 2011. With the exception of one new finding during this assessment period associated with oversight of work practices [H.4(c)], no additional examples were identified. The NRC determined that the corrective actions that have been implemented to address these themes appear to be effective. Therefore, the NRC did not open a substantive cross-cutting issue in human performance.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. 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 end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC

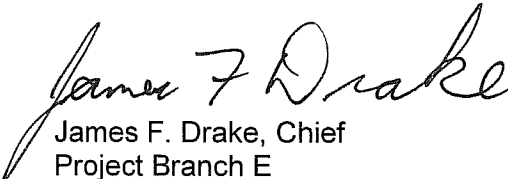
will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In the days following the Fukushima Dai-ichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Dai-ichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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 James Drake at 817-276-6558 with any questions you have regarding this letter.

Sincerely,



James F. Drake, Chief  
Project Branch E  
Division of Reactor Projects

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

Enclosure:  
Arkansas Nuclear One Inspection Plan

cc: Distribution via ListServ

Arkansas Nuclear One  
 Inspection / Activity Plan  
 07/01/2011 - 12/31/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	08/01/2011 08/05/2011	EXAM X02478	- INITIAL OPERATOR EXAM INITIAL EXAM - UNIT 1 - ANO (10/2011)	3
1	08/29/2011 09/02/2011	EXAM X02478	INITIAL EXAM - UNIT 1 - ANO (10/2011)	
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	
1,2	08/15/2011 08/25/2011	TI-177 IP 2515/177	- MANAGING GAS ACCUMULATION IN ECC/DHR/CSS Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	1
1	10/16/2011 10/29/2011	PSB2-08P IP 7111108P	- INSERVICE INSPECTION - U1 Inservice Inspection Activities - PWR	4
1,2	02/13/2012 03/16/2012	EB1-21 IP 7111121	- COMPONENT DESIGN BASIS INSPECTION Component Design Bases Inspection	5
1,2	02/13/2012 03/16/2012	IP 7111121-DesMargn	Risk-significant/low Design Margin Components	
1,2	02/13/2012 03/16/2012	IP 7111121-OpAction		
1,2	02/13/2012 03/16/2012	IP 7111121-OpIssues	Operating Experience Issues	
1,2	03/19/2012 03/23/2012	RS5678 IP 71124.05	- RADIATION SAFETY TEAM Radiation Monitoring Instrumentation	4
1,2	03/19/2012 03/23/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	03/19/2012 03/23/2012	IP 71124.07	Radiological Environmental Monitoring Program	
1,2	03/19/2012 03/23/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	04/09/2012 04/13/2012	EP-1 IP 7111401	- BIENNIAL EP EXERCISE Exercise Evaluation	3
1,2	04/09/2012 04/13/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	04/09/2012 04/13/2012	IP 71151-EP01	Drill/Exercise Performance	
1,2	04/09/2012 04/13/2012	IP 71151-EP02	ERO Drill Participation	
1,2	04/09/2012 04/13/2012	IP 71151-EP03	Alert & Notification System	
2	07/23/2012 07/27/2012	EXAM X02492	- INITIAL OPERATOR EXAM INITIAL EXAM UNIT 2- ANO )01/01/2012)	4
2	08/27/2012 09/07/2012	X02492	INITIAL EXAM UNIT 2- ANO )01/01/2012)	
1,2	07/09/2012 07/13/2012	BRQ IP 7111111B	- BRQ INSPECTION Licensed Operator Requalification Program	4
2	09/17/2012 09/30/2012	PSB2-08P IP 2515/066	- INSERVICE INSPECTION - U2 Inspection Requirements For Ie Bulletin 84-03, "Refueling Cavity Water Seals"	4

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

Arkansas Nuclear One  
 Inspection / Activity Plan  
 07/01/2011 - 12/31/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>RS12 - RADIATION SAFETY</b>		2
1, 2	09/24/2012 09/28/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/24/2012 09/28/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	09/24/2012 09/28/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	09/24/2012 09/28/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>EB1-07T - HEAT SINK PERFORMANCE</b>		1
1, 2	11/05/2012 11/09/2012	IP 7111107T	Heat Sink Performance	

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