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

September 1, 2009

Kevin Walsh, Vice President, Operations
Entergy Operations, Inc.
Arkansas Nuclear One
1448 S.R. 333
Russellville, AR 72802

SUBJECT: MIDCYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - ARKANSAS NUCLEAR ONE

Dear Mr. Walsh:

On August 4, 2009, the NRC staff completed its performance review of Arkansas Nuclear One for the first half of the calendar year 2009 assessment cycle. Our technical staff reviewed performance indicators 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-Related Information," will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Arkansas Nuclear One, Unit 1, was within the Regulatory Response column of the NRC's Action Matrix for exceeding the performance indicator for the number of unplanned scrams per 7000 critical hours. A 95001 supplemental inspection was conducted in June of 2009 whereby it was concluded that the root causes of the unplanned reactor scrams were adequately defined and understood and the corrective actions resulting from the evaluations appropriately addressed the identified causes.

Plant performance for the most recent quarter at Arkansas Nuclear One, Unit 2, was within the Licensee Response column of the NRC's Action Matrix, based on all inspections 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 based on these assessment results for Units 1 and 2, we plan to conduct reactor oversight process baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2010. 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. We are also evaluating potential changes to the inspection program in the radiation safety cornerstone. Consequently, some specific inspection procedures and the inspection schedule may be revised for 2010.

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 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. Fred Sanchez at (817) 860-8147 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

Dwight D. Chamberlain

Dwight D. Chamberlain, Director
Division of Reactor Projects

Docket: 50-313; 50-368
License: DPR-51; NPF-6

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

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File located: R:\EOC and Midcycle\Midcycle Assessment Letters\2009 dated

SUNSI Rev Compl.	☐ Yes ☐ No	ADAMS	☐ Yes ☐ No	Reviewer Initials	
Publicly Avail	☐ Yes ☐ No	Sensitive	☐ Yes ☐ No	Sens. Type Initials	

RIV:SPE/DRP/PBE	C:DRP/PBE	D:DRS	D:DRP	
GDReplogle	JAClark	RJCaniano	DDChamberlain	
8/17/09	8/19/09	8/19/09	8/19/09	

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Arkansas Nuclear One
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			EB1-21T - CDBI		5
1, 2	07/06/2009	07/10/2009	IP 7111121	Component Design Bases Inspection	
1, 2	07/20/2009	07/31/2009	IP 7111121	Component Design Bases Inspection	
			EXAM - INITIAL EXAM		4
2	07/06/2009	07/10/2009	X02404	INITIAL EXAM UNIT 2-ANO (8/2009)	
2	08/10/2009	08/14/2009	X02404	INITIAL EXAM UNIT 2-ANO (8/2009)	
			EB1-08P - INSERVICE INSPECTION		3
2	09/02/2009	09/18/2009	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
2	09/02/2009	09/18/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			RP-ORS5 - OCCUPATIONAL RADIATION SAFETY - ACCESS		1
1, 2	09/14/2009	09/18/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	09/14/2009	09/18/2009	IP 7112102	ALARA Planning and Controls	
1, 2	09/14/2009	09/18/2009	IP 71151	Performance Indicator Verification	
			EXAM - INITIAL EXAM		4
1	02/01/2010	02/05/2010	X02439	INITIAL EXAM- ANO (3/2010)	
1	03/08/2010	03/12/2010	X02439	INITIAL EXAM- ANO (3/2010)	
			RP-ORS1 - OCCUPATIONAL RADIATION SAFETY - ALARA		1
1, 2	03/15/2010	03/19/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	03/15/2010	03/19/2010	IP 7112102	ALARA Planning and Controls	
1, 2	03/15/2010	03/19/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	03/15/2010	03/19/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			EB1-08P - INSERVICE INSPECTION - U1		3
1	04/05/2010	04/22/2010	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
1	04/05/2010	04/22/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			RP-ORS2 - OCCUPATIONAL RADIATION SAFETY - ACCESS		1
1, 2	04/12/2010	04/16/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	04/12/2010	04/16/2010	IP 7112102	ALARA Planning and Controls	
1, 2	04/12/2010	04/16/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	04/12/2010	04/16/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			BRQ - OPERATOR REQUAL INSP		3
2	07/12/2010	07/16/2010	IP 7111111B	Licensed Operator Requalification Program	
			RP TEAM - RADIATION SAFETY TEAM INSPECTION		4
1, 2	07/19/2010	07/23/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
1, 2	07/19/2010	07/23/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1, 2	07/19/2010	07/23/2010	IP 7112202	Radioactive Material Processing and Transportation	

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
07/01/2009 - 12/31/2010

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			RP TEAM	**- RADIATION SAFETY TEAM INSPECTION**	4
1, 2	07/19/2010	07/23/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
1, 2	07/19/2010	07/23/2010	IP 7113011	Material Control and Accounting (MC&A)	
			EB2-05T	**- TRIENNIAL FIRE PROTECTION**	4
1, 2	08/16/2010	08/20/2010	IP 7111105T	Fire Protection [Triennial]	
1, 2	08/30/2010	09/03/2010	IP 7111105T	Fire Protection [Triennial]	
			EP-1	**- BIENNIAL EP EXERCISE INSPECTION**	3
1, 2	09/20/2010	09/24/2010	IP 7111401	Exercise Evaluation	
1, 2	09/20/2010	09/24/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	09/20/2010	09/24/2010	IP 71151-EP01	Drill/Exercise Performance	
1, 2	09/20/2010	09/24/2010	IP 71151-EP02	ERO Drill Participation	
1, 2	09/20/2010	09/24/2010	IP 71151-EP03	Alert & Notification System	

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