



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

March 2, 2007

Timothy G. Mitchell
Vice President Operations
Arkansas Nuclear One
Entergy Operations, Inc.
1448 S.R. 333
Russellville, AR 72802-0967

SUBJECT: ANNUAL ASSESSMENT LETTER - ARKANSAS NUCLEAR ONE
(NRC INSPECTION REPORT 05000313/368-2007001)

Dear Mr. Mitchell:

On February 7, 2007, the NRC staff completed its performance review of Arkansas Nuclear One (ANO). Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from January 1 through December 31, 2006. 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 physical protection information. A separate letter designated and marked as "Official Use Only - Security-Related Information" will include the physical protection review and resultant inspection plan.

Overall, ANO Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2008. 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 9 months of the inspection plan are tentative and may be revised at the midcycle 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).



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C. Haney, Director, DORL, NRR (**CXH**)

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SUNSI Review Completed: JAC ADAMS: Yes No Initials: JAC
 Publicly Available Non-Publicly Available Sensitive Non-Sensitive

R:_ REACTORS\EOC and Midcycle\EOC Assessment Letters\2006 - 3-2-07\ANO.wpd

RIV/C:DRP/E	D:DRS	D:DRP	C:DRP/E Signature
JAClark;df	DDChamberlain	ATHowell III	JAClark
<i>/RA/</i>	<i>/RA/</i>	<i>AVegel for</i>	<i>/RA/</i>
2/14/07	2/14/07	2/25/07	3/2/07

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2/14/07	2/14/07	2/25/07	3/2/07

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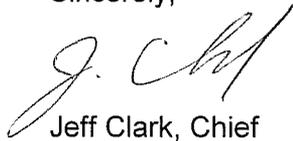
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If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (817) 860-8147 with any questions you may have regarding this letter or the inspection plan.

Sincerely,



Jeff Clark, Chief
Project Branch E
Division of Reactor Projects

Dockets: 50-313
50-368
Licenses: DPR-51
NPF-6

Enclosure:
Arkansas Nuclear One Inspection/Activity Plan

cc w/enclosure:
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Entergy Operations, Inc.

- 4 -

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Arkansas Nuclear One
 Inspection / Activity Plan
 01/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
RP-ORS - OCCUPATIONAL RADIATION SAFETY			1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/08/2007	01/12/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		01/08/2007	01/12/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/08/2007	01/12/2007	Baseline Inspections
EB2-52B - ANO PIR INSPECTION			8			
1,2	IP 71152B	Identification and Resolution of Problems		01/22/2007	01/26/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		03/05/2007	03/08/2007	Baseline Inspections
EB2-07B - HEAT SINK INSPECTION			2			
1,2	IP 7111107B	Heat Sink Performance		02/12/2007	02/16/2007	Baseline Inspections
EXAM - INITIAL EXAM			3			
1	X02322	ANO UNIT 1 INITIAL EXAM (2/26/07)		02/12/2007	02/16/2007	Not Applicable
1	X02322	ANO UNIT 1 INITIAL EXAM (2/26/07)		03/05/2007	03/09/2007	Not Applicable
EB1-08P - ISI - U1			2			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		04/30/2007	05/11/2007	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		04/30/2007	05/11/2007	Baseline Inspections
RP-ORS4 - OCCUPATIONAL RADIATION SAFETY - ACCESS			1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		04/30/2007	05/04/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		04/30/2007	05/04/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		04/30/2007	05/04/2007	Baseline Inspections
EB1-ISI - EB1 - ISI AND TI-166			1			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		04/30/2007	05/11/2007	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		04/30/2007	05/11/2007	Baseline Inspections
EP2 - EP PROGRAM			1			
1,2	IP 7111402	Alert and Notification System Testing		06/18/2007	06/22/2007	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		06/18/2007	06/22/2007	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/18/2007	06/22/2007	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		06/18/2007	06/22/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		06/18/2007	06/22/2007	Baseline Inspections
EB1-21 - CDB			7			
1,2	IP 7111121	Component Design Bases Inspection		08/27/2007	08/31/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		09/10/2007	09/21/2007	Baseline Inspections
RP-ORS5 - OCCUPATIONAL RADIATION SAFETY-ALARA			1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		08/13/2007	08/17/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		08/13/2007	08/17/2007	Baseline Inspections

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
 01/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	RP-ORS5	- OCCUPATIONAL RADIATION SAFETY-ALARA	1			
1,2	IP 71151	Performance Indicator Verification		08/13/2007	08/17/2007	Baseline Inspections
	EB1-CDBI	- EB1 - COMPONENT DESIGN BASES INSPECTION	1			
1,2	IP 7111121	Component Design Bases Inspection		08/27/2007	09/21/2007	Baseline Inspections
	EB2-05T	- TRIENNIAL FIRE PROTECTION	7			
1,2	IP 7111105T	Fire Protection [Triennial]		09/24/2007	09/28/2007	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		10/15/2007	10/19/2007	Baseline Inspections
	EXAM	- INITIAL EXAMINATION	1			
2	X02373	ANO UNIIT 2 -INITIAL EXAM (02/25/08)		02/04/2008	02/08/2008	Not Applicable
2	X02373	ANO UNIIT 2 -INITIAL EXAM (02/25/08)		02/25/2008	03/05/2008	Not Applicable
	RP-ORS1	- OCCUPATIONAL RADIATION SAFETY - ACCESS	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/24/2008	03/28/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/24/2008	03/28/2008	Baseline Inspections
2	IP 71151-OR01	Occupational Exposure Control Effectiveness		03/24/2008	03/28/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		03/24/2008	03/28/2008	Baseline Inspections
	EP1	- EP EXERCISE	3			
1,2	IP 7111401	Exercise Evaluation		05/05/2008	05/10/2008	Baseline Inspections
	EB1-2/17	- 50.59 & PERMANENT PLANT MODS	4			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/16/2008	06/20/2008	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		06/16/2008	06/20/2008	Baseline Inspections
	RP TEAM	- RADIATION SAFETY TEAM INSPECTION	5			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		07/07/2008	07/11/2008	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		07/07/2008	07/11/2008	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		07/07/2008	07/11/2008	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control F		07/07/2008	07/11/2008	Baseline Inspections
	EXAM	- INITIAL EXAMINATION	1			
1	X02359	ANO UNIT 1 - INITIAL EXAM (01/08)		07/28/2008	08/01/2008	Not Applicable
1	X02359	ANO UNIT 1 - INITIAL EXAM (01/08)		07/28/2008	08/01/2008	Not Applicable
	RP-ORS2	- OCCUPATIONAL RADIATION SAFETY-ALARA	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/22/2008	09/26/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/22/2008	09/26/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/22/2008	09/26/2008	Baseline Inspections
2	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/22/2008	09/26/2008	Baseline Inspections

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