



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

August 31, 2007

Timothy G. Mitchell
Vice President Operations
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

Dear Mr. Mitchell:

On August 8, 2007, the NRC staff completed its performance review of Arkansas Nuclear One for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed performance indicators (PIs) 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 Information" will include the security cornerstone review and resultant inspection plan.

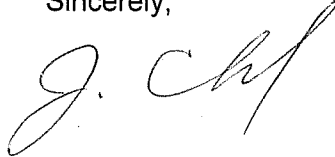
Plant performance for the most recent quarter at Arkansas Nuclear One Units 1 and 2 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring 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, except those related to security scheduled through December 31, 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 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).

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures if the results of the evaluation, or any other circumstances, cause us to change the 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
Reactor Projects Branch E
Division of Reactor Projects

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

Enclosure: Arkansas Nuclear One Inspection/ Activity Plan

cc w/Enclosure:

Senior Vice President
& Chief Operating Officer
Entergy Operations, Inc.
P.O. Box 31995
Jackson, MS 39286-1995

Manager, Licensing
Entergy Operations, Inc.
Arkansas Nuclear One
1448 S. R. 333
Russellville, AR 72802

Vice President
Operations Support
Entergy Operations, Inc.
P.O. Box 31995
Jackson, MS 39286-1995

Director, Nuclear Safety & Licensing
Entergy Operations, Inc.
1340 Echelon Parkway
Jackson, MS 39213-8298

General Manager Plant Operations
Entergy Operations, Inc.
Arkansas Nuclear One
1448 S. R. 333
Russellville, AR 72802

Section Chief, Division of Health
Radiation Control Section
Arkansas Department of Health and
Human Services
4815 West Markham Street, Slot 30
Little Rock, AR 72205-3867

Director, Nuclear Safety Assurance
Entergy Operations, Inc.
Arkansas Nuclear One
1448 S. R. 333
Russellville, AR 72802

Section Chief, Division of Health
Emergency Management Section
Arkansas Department of Health and
Human Services
4815 West Markham Street, Slot 30
Little Rock, AR 72205-3867

Entergy Operations, Inc.

-3-

Manager, Washington Nuclear Operations
ABB Combustion Engineering Nuclear
Power
12300 Twinbrook Parkway, Suite 330
Rockville, MD 20852

County Judge of Pope County
Pope County Courthouse
100 West Main Street
Russellville, AR 72801

James Mallay
Director, Regulatory Affairs
Framatome ANP
3815 Old Forest Road
Lynchburg, VA 24501

Lisa R. Hammond, Chief
Technological Hazards Branch
National Preparedness Division
FEMA Region VI
800 N. Loop 288
Denton, TX 76209

Institute of Nuclear Power Operations (INPO)
Records Center
700 Galleria Parkway SE, Suite 100
Atlanta, GA 30339

- Electronic distribution by RIV:
 Regional Administrator (**BSM1**)
 DRP Director (**ATH**)
 DRS Director (**DDC**)
 DRS Deputy Director (**RJC1**)
 Senior Resident Inspector (**RWD**)
 Branch Chief, DRP/E (**JAC**)
 Senior Project Engineer, DRP/E (**GDR**)
 Team Leader, DRP/TSS (**CJP**)
 RITS Coordinator (**MSH3**)
 RidsNrrDirslpab@nrc.gov
 V. Dricks, PAO (**VLD**)
 W. Maier, RSLO (**WAM**)
 L. Owen, RA Secretary (**LAO**)
 DRS Branch Chiefs (**WBJ, ATG, LJS, MPS1**)
 T. Bloomer, Chief, TRPS, OEDO (**TEB**)
 S. Richards, Deputy Director, DIRS, NRR (**SAR**)
 J. Lubinski, Deputy Director, DORL, NRR (**JWL**)
 C. Haney, Director, DORL, NRR (**CXH**)
 T. Hiltz, Chief, PLB IV, DORL, NRR (**TGH**)
 N. Kalyanam, NRR Project Manager for ANO (**NXK**)

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

R: REACTORS\EOC and Midcycle\Midcycle Assessment Letters\2007\ANO.wpd

RIV/SPE/DRP/E	C:DRP/E	D:DRS	D:DRP	C:DRP/E signature
GDRReplg08.mjs	JAClark	DDChamberlain	ATHowell	JAClark
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8/20/07	8/21/07	8/21/07	8/21/07	8/23/07

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

Arkansas Nuclear One
 Inspection / Activity Plan
 09/01/2007 - 12/31/2008

Page 1 of 2
 08/15/2007 07:12:59
 Report 22

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EB1-21 - CDB		7			
1, 2	IP 7111121	Component Design Bases Inspection		09/10/2007	09/21/2007	Baseline Inspections
	EB2-05T - TRIENNIAL FIRE PROTECTION		4			
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 - UNIT 1		4			
2	X02373	ANO UNIT 2 -INITIAL EXAM (02/2008)		01/07/2008	01/11/2008	Not Applicable
2	X02373	ANO UNIT 2 -INITIAL EXAM (02/2008)		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		1			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/16/2008	06/20/2008	Baseline Inspections
1, 2	IP 711117B	Permanent Plant Modifications		06/16/2008	06/20/2008	Baseline Inspections
	REQVAL - BIENNIAL REQUALIFICATION AN2 BRQ AN1 ARQ		3			
1, 2	IP 711111B	Licensed Operator Requalification Program		07/07/2008	07/11/2008	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		3			
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)		09/08/2008	09/12/2008	Not Applicable
	RP-ORS2 - OCCUPATIONAL RADIATION SAFETY-ALARA		1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/15/2008	09/19/2008	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		09/15/2008	09/19/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/15/2008	09/19/2008	Baseline Inspections
2	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/15/2008	09/19/2008	Baseline Inspections

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

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	RP-ORS3 - OCCUPATIONAL RADIATION SAFETY - ALARA		1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		11/03/2008	11/07/2008	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		11/03/2008	11/07/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		11/03/2008	11/07/2008	Baseline Inspections
2	IP 71151-PR01	RETS/ODCM Radiological Effluent		11/03/2008	11/07/2008	Baseline Inspections

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