ARKANSAS NUCLEAR ONE, UNIT 1

INITIAL EXAMINATIONS DECEMBER 13-19, 1999

INSPECTION REPORT



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TEXAS 76011-8064

JAN 13 2000

C. Randy Hutchinson, Vice President Operations Arkansas Nuclear One Entergy Operations, Inc. 1448 S.R. 333 Russellville, Arkansas 72801-0967

SUBJECT: NRC INSPECTION REPORT NO. 50-313/99-301; 50-368/99-301

Dear Mr. Hutchinson:

This refers to the inspection conducted on December 13 to 16, 1999, at the Arkansas Nuclear One, Unit 1 facility. The enclosed report presents the results of this inspection.

The inspection included an evaluation of four applicants for reactor operator and four applicants for senior reactor operator licenses. We determined that all applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be placed in the NRC Public Document Room.

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

John L. Pellet, Chief Operations Branch Division of Reactor Safety

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

Enclosure: NRC Inspection Report No. 50-313/99-301; 50-368/99-301

cc w/enclosure (w/Attachments 1 and 2): Sherrie R. Cotton, Manager, Training Arkansas Nuclear One Entergy Operations, Inc. 1448 S.R. 333 Russellville, Arkansas 72801-0967

cc w/enclosure (w/Attachment 1): Executive Vice President & Chief Operating Officer Entergy Operations, Inc. P.O. Box 31995 Jackson, Mississippi 39286-1995

Vice President Operations Support Entergy Operations, Inc. P.O. Box 31995 Jackson, Mississippi 39286

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

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

Winston & Strawn 1400 L Street, N.W. Washington, DC 20005-3502

David D. Snellings, Jr., Director Division of Radiation Control and Emergency Management Arkansas Department of Health 4815 West Markham Street, Mail Slot 30 Little Rock, Arkansas 72205-3867

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Manager Rockville Nuclear Licensing Framatome Technologies 1700 Rockville Pike, Suite 525 Rockville, Maryland 20852

E-Mail report to D. Lange (DJL) E-Mail report to NRR Event Tracking System (IPAS) E-Mail report to Document Control Desk (DOCDESK) E-Mail notification of report issuance to the ANO SRI and Site Secretary (RLB3, VLH). E-Mail notification of issuance of all documents to Nancy Holbrook (NBH).

bcc to DCD (IE01)(IE42)

bcc distrib. by RIV **(w/Attachment 1 only)**: Regional Administrator Resident Inspector DRP Director RIV File DRS Director Branch Chief (DRP/D) Project Engineer (DRP/D)

(w/Attachments 1, and 2): Laura Hurley D. Trimble (IOLB)

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(w/Attachments 1, 2, and 3):

Laura Hurley D. Trimble (IOLB)

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U.S. NUCLEAR REGULATORY COMMISSION REGION IV

Docket Nos.:	50-313; 50-368
License Nos.:	DPR-51; NPF-6
Report No.:	50-313/99-301; 50-368/99-301
Licensee:	Entergy Operations, Inc.
Facility:	Arkansas Nuclear One, Units 1 and 2
Location:	Junction of Hwy. 64W and Hwy. 333 South Russellville, Arkansas
Dates:	December 13-16,1999
Inspectors:	M. E. Murphy, Senior Reactor Engineer, Operations Branch T. F. Stetka, Senior Reactor Engineer, Operations Branch R. E. Lantz, Reactor Engineer, Operations Branch
Approved By:	J. L. Pellet, Chief, Operations Branch Division of Reactor Safety

ATTACHMENTS:

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Attachment 1:	Supplemental Information
Attachment 2:	Licensee Written Examination Analysis
Attachment 3:	Final Written Examination and Answer Key

EXECUTIVE SUMMARY

Arkansas Nuclear One, Units 1 and 2 NRC Inspection Report No. 50-313/99-301; 50-368/99-301

NRC examiners evaluated the competency of four reactor operator and four senior reactor operator applicants for issuance of operating licenses at the Arkansas Nuclear One Unit 1. The licensee developed the initial license examinations using the guidance in NUREG-1021, Revision 8, April 1999. NRC examiners reviewed and approved the examinations. The initial written examinations were administered to the applicants on December 10, 1999, by facility proctors in accordance with the guidance in NUREG-1021, Revision 8. The NRC examiners administered to the applicants on the NRC examiners administered the operating tests December 13-16, 1999.

Operations

 All applicants for operator licenses passed the licensing examinations and were issued the appropriate licenses. Overall applicant performance was good with adequate communications and very good peer and self checking.

04.2 Initial Operating Test

a. Inspection Scope

The examination team administered the various parts of the operating examination to the applicants on December 13-16, 1999. Most applicants participated in at least two scenarios. Each of the applicants also received a control room and facilities walkthrough test. This test consisted of five tasks for current licensed operators and ten tasks for the instant senior operator and reactor operator applicants. Also, there was an administrative portion, which consisted of five tasks in four administrative areas for all applicants.

b. Observations and Findings

All applicants passed all sections of the operating test. Overall operator performance was very good. Communications were in accordance with the licensee's procedures. The applicants use of peer checking and self checking were consistent and very good.

c. Conclusions

All applicants passed all parts of the operating test. Overall operator performance was very good.

05 Operator Training and Qualification

05.1 Initial Licensing Examination Development

The facility licensee developed the initial licensing examination in accordance with NUREG-1021, Revision 8, "Operator Licensing Examination Standards for Power Reactors."

05.1.1 Examination Outline

a. Inspection Scope

The facility licensee submitted the initial examination outline on August 2, 1999. The chief examiner reviewed the submittal against the requirements of NUREG-1021, Revision 8.

b. Observations and Findings

Region IV approved the initial examination outline with minor comments for enhancement, which were promptly resolved, and advised the licensee to proceed with examination development.

c. Conclusion

The licensee submitted an adequate examination outline.

05.1.2 Examination Package

a. Inspection Scope

The facility licensee submitted the completed draft examination package on September 24, 1999. The chief examiner and a peer reviewer reviewed the formal submittal against the requirements of NUREG-1021, Revision 8.

b. Observations and Findings

The examination as submitted was satisfactory. Some enhancements were suggested by the chief examiner, agreed upon by the licensee and effected according to NUREG-1021.

c. Conclusions

The examination as submitted was satisfactory.

05.2 Simulation Facility Performance

a. Inspection Scope

The examiners observed simulator performance with regard to fidelity during the examination validation and administration.

b. Observations and Findings

The simulation facilities supported the validation and administration of the examination well. No simulator fidelity problems were identified.

c. <u>Conclusions</u>

The simulation facilities and simulation facility staff supported the examinations well.

- 05.3 Examination Security
- a. <u>Scope</u>

The examiners reviewed examination security during the examination administration for compliance with NUREG-1021 requirements.

b. Observations and Findings

Members of the licensee's operations and training staff signed onto the NUREG-1021 examination security agreement, acknowledging their responsibilities for examination security. The security plans were satisfactorily implemented. Applicants were maintained under constant supervision and were always escorted to and from examination points. Simulator security was strictly maintained.

c. <u>Conclusions</u>

Satisfactory examination security was maintained.

V. Management Meetings

XI Exit Meeting Summary

The chief examiner presented the inspection results to members of the licensee management at the conclusion of the inspection on December 16, 1999. The licensee acknowledged the findings presented.

The licensee did not identify as proprietary any information or materials examined during the inspection.

ATTACHMENT 1

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

<u>Licensee</u>

- C. Anderson, General Manager, Plant Operations
- D. Bensen, Simulator Support Supervisor
- A. Clinkingbeard, Operations Shift Superintendent
- J. Cork, Unit 1 Operations Training
- S. Cotton, Training Manager
- G. Giles, Supervisor, Operations Training
- M. Little, Unit 1 Operations Manager
- T. Mitchell, Unit 2 Operations Manager
- D. Sealock, Simulator Training Supervisor
- C. Zimmerman, Unit 1 Plant Manager

ATTACHMENT 2

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As-Given Written Examination and Answer Key