



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

February 28, 2001

Craig G. Anderson, Vice President,
Operations
Arkansas Nuclear One
Entergy Operations, Inc.
1448 S.R. 333
Russellville, Arkansas 72801-0967

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 1, INITIAL EXAMINATION REPORT
NO. 50-313/01-301

Dear Mr. Anderson:

On February 15, 2001, the NRC completed initial examinations at the Arkansas Nuclear One, Unit 1. The enclosed report presents the results of this examination, which were discussed on February 15, 2001, with you and other members of your staff.

The examination included the evaluation of three applicants for operator licenses, and four applicants for senior 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 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/NRC/ADAMS/index.html> (the Public Electronic Reading Room).

Sincerely,

D. Powers for /RA/

Arthur T. Howell III, Director
Division of Reactor Safety

Docket No.: 50-313
License No.: DPR-51

Enclosure:
NRC Examination Report
50-313/01-301
w/Attachment - Supplemental Information

Entergy Operations, Inc.

-2-

cc w/enclosure:

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 39286-1995

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

Mike Schoppman
Framatome ANP, Inc.
Suite 705
1911 North Fort Myer Drive
Rosslyn, Virginia 22209

Electronic distribution from ADAMS by RIV:

Regional Administrator (**EWM**)

DRP Director (**KEB**)

DRS Director (**ATH**)

Senior Resident Inspector (**RLB3**)

Branch Chief, DRP/D (**LJS**)

Senior Project Engineer, DRP/D (**vacant**)

Chief, DRP/TSS (**PHH**)

RITS Coordinator (**NBH**)

Scott Morris (**SAM1**)

NRR Event Tracking System (**IPAS**)

ANO Site Secretary (**VLH**)

R:_ano\2001\an01-0301rp-pcg.wpd

SOE:OB	SOE:OB	OE:OB	C:OB	C:PBD	D:DRS
PCGage/lmb*	TOMcKernon*	RELantz*	SLMcCrory*	LJSmith*	ATHowell III
/RA/	/RA/	/RA/	/RA/	/RA/	/RA/
02/26/01	02/27/01	02/26/01	02/27/01	02/27/01	02/28/01

*Previously concurred

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

ENCLOSURE

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

Docket No.: 50-313

License No.: DPR-51

Examination No.: 50-313/01-301

Licensee: Entergy Operations, Inc.

Facility: Arkansas Nuclear One, Unit 1

Location: Junction of Hwy. 64W and Hwy. 333 South
Russellville, Arkansas

Dates: February 12-15, 2001

Examiners: Paul C. Gage, Chief Examiner, Operations Branch
Tom O. McKernon, Senior Operations Engineer, Operations Branch
Ryan E. Lantz, Operations Engineer, Operations Branch

Approved By: Arthur T. Howell III, Director
Division of Reactor Safety

SUMMARY OF FINDINGS

Arkansas Nuclear One, Unit 1
NRC Examination Report 50-313/01-301

IR 05000313/01-301, on 02/12-15/2001, Entergy Operations, Inc., Arkansas Nuclear One, Unit 1, Initial Examination of Applicants for Operator Licenses.

An NRC examination team evaluated the competency of three applicants for operator licenses, and four applicants for senior operator licenses at the Arkansas Nuclear One, Unit 1. The facility developed the written and operating examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 8, Supplement 1. The written examinations were administered to all applicants on February 9, 2001, by facility proctors in accordance with instructions provided by the chief examiner. The NRC examiners administered the operating tests on February 12-15, 2001.

Examination Details

4. **OTHER ACTIVITIES**

4OA4 Initial License Examinations

.1 Operator Knowledge and Performance

a. Examination Scope

On February 9, 2001, the licensee proctored the administration of the written examination to all seven applicants. The licensee's staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on February 15, 2001.

The NRC examination team administered the various portions of the operating examination to the seven applicants on February 12-15, 2001. The three applicants for operator licenses and the one applicant for instant senior operator license participated in two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of ten system tasks, and an administrative test consisting of five administrative tasks. The three applicants that were upgrading from an operator license to a senior operator license each participated in one dynamic simulator scenario, a control room and facilities walkthrough test consisting of five system tasks, and an administrative test consisting of five administrative tasks.

b. Findings

All applicants passed all parts of the examinations. The applicants demonstrated good 3-way communications, alarm response, and peer checking. For the written examinations, the average score was 90.9 and ranged from 87 to 95. The text of the examination questions may be accessed in the ADAMS system under Accession No. ML010530323.

The licensee conducted a performance analysis for the written examinations with emphasis on questions missed by half or more of the applicable applicants. The licensee concluded that all of the questions were valid and that there were no commonalities in the knowledge deficiencies. No recommendations were made by the licensee to modify or delete any of the questions, or to accept additional answers from the written examination. The chief examiner reviewed the licensee's analysis and applicant performance and found the conclusions to be technically valid.

No findings were identified.

.2 Initial Licensing Examination Development

The licensee developed the written and operating examinations in accordance with NUREG-1021, Revision 8, Supplement 1, using facility training and operations staff on the security agreement.

.2.1 Examination Outline and Examination Package

a. Examination Scope

The facility licensee submitted the operating examination outlines on October 18, 2000. The chief examiner reviewed the submittal against the criteria of NUREG-1021, Revision 8, Supplement 1, and provided comments to the licensee. The facility licensee submitted the draft operating examination package on December 14, 2000. The chief examiner reviewed the draft submittal against the criteria of NUREG-1021, Revision 8, Supplement 1, and provided comments to the licensee on the operating examination on January 3, 2001. The chief examiner conducted an onsite validation of the operating examinations and provided further comments during the period of January 8-12, 2001. The licensee satisfactorily completed comment resolution on February 6, 2001.

b. Findings

Region IV management approved the initial examination outline and advised the licensee to proceed with the operating examination development.

The examiners determined that the written and operating examinations initially submitted by the licensee were within the range of acceptability expected for a proposed examination.

No findings were identified.

.3 Simulation Facility Performance

a. Examination Scope

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

b. Findings

No findings were identified.

.4 Examination Security

a. Examination Scope

The examiners reviewed examination security both during the onsite preparation week and examination administration week for agreement with NUREG-1021 criteria. Plans for simulator security and applicant control were reviewed.

b. Findings

No findings were identified.

40A5 Management Meetings

.1 Exit Meeting Summary

The chief examiner presented the examination results to Mr. C. Anderson, Vice President, Operations, at the conclusion of the examination on February 15, 2001. The licensee's management acknowledged the findings presented.

The licensee's management did not identify as proprietary any information or materials examined during the examination.

ATTACHMENT

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Licensee

C. Anderson, Vice President, Operations
J. Miller, Manager, Operations
R. Barnes, Supervisor, Simulator Training
R. Eichenberger, Assistant Manager, Operations
T. Mayfield, Supervisor, Unit 2 Operations Training
M. Goad, Operations Trainer, Unit 1
J. Giles, Supervisor, Unit 1 Operations Training
C. Zimmerman, Plant Manager, Unit 1

ADAMS DOCUMENTS REFERENCED

Accession No.:

ML010530323

Final Reference Exam