



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

March 17, 2011

Christopher J. Schwarz, Site Vice President
Arkansas Nuclear One
Entergy Operations, Inc.
1448 SR 333
Russellville, AR 72802-0967

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2 - NRC EXAMINATION REPORT
05000368/2011301

Dear Mr. Schwarz:

On February 3, 2011, the U.S. Nuclear Regulatory Commission (NRC) completed an initial operator license examination at Arkansas Nuclear One, Unit 2. The enclosed report documents the examination findings and licensing decisions. The preliminary examination findings were discussed on February 3, 2011, with Ms. Sherrie Cotton, Training Manager, and other members of your staff. A telephonic exit meeting was conducted on February 17, 2011, with Mr. Randall Martin, Training Superintendent, who was provided the NRC licensing decisions.

The examination included the evaluation of five applicants for reactor operator licenses, one applicant for instant senior reactor operator license and five applicants for upgrade senior reactor operator licenses. The license examiners determined that all of the applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued. There were no post-examination comments submitted by your staff. The enclosure to this letter contains the details of this report.

No findings were identified during this examination.

In accordance with 10 CFR 2.390 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/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

A handwritten signature in black ink, appearing to read "Kelly" followed by a stylized signature and the word "for".

Mark S. Haire, Chief
Operations Branch
Division of Reactor Safety

Entergy Operations, Inc.

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Docket: 50-368

License: NPF-6

Enclosure:

NRC Examination Report 05000368/2011301

Distribution via ListServ for ANO

U.S. NUCLEAR REGULATORY COMMISSION

REGION IV

Docket: 50-368
License: NPF-6
Report: 05000368/2011301
Licensee: Entergy Operations, Inc.
Facility: Arkansas Nuclear One, Unit 2
Location: Junction of Hwy. 64W and Hwy. 333 South
Russellville, Arkansas
Dates: January 28 - February 17, 2011
Inspectors: G. Apger, Operations Engineer
B. Larson, Senior Operations Engineer
S. Steely, Operations Engineer
Approved By: Mark S. Haire, Chief
Operations Branch
Division of Reactor Safety

SUMMARY OF FINDINGS

ER05000368/2011301; January 28 - February 17, 2011; Arkansas Nuclear One, Unit 2; Initial Operator Licensing Examination Report.

NRC examiners evaluated the competency of five applicants for reactor operator licenses, one applicant for instant senior reactor operator license and five applicants for upgrade senior reactor operator licenses at Arkansas Nuclear One, Unit 2.

The licensee developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1. The written examination was administered by the licensee on January 28, 2011. NRC examiners administered the operating tests on January 31 - February 3, 2011.

The examiners determined that all of the applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued.

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Violations

None.

REPORT DETAILS

4. OTHER ACTIVITIES (OA)

4OA5 Other Activities (Initial Operator License Examination)

.1 License Applications

a. Scope

NRC examiners reviewed all license applications submitted to ensure each applicant satisfied relevant license eligibility requirements. The examiners also audited three of the license applications in detail to confirm that they accurately reflected the subject applicant's qualifications. This audit focused on the applicant's experience and on-the-job training, including control manipulations that provided significant reactivity changes.

b. Findings

No findings were identified.

.2 Examination Development

a. Scope

NRC examiners reviewed integrated examination outlines and draft examinations submitted by the licensee against the requirements of NUREG-1021. The NRC examination team conducted an onsite validation of the operating tests.

b. Findings

NRC examiners provided outline, draft examination and post-validation comments to the licensee. The licensee satisfactorily completed comment resolution prior to examination administration.

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

.3 Operator Knowledge and Performance

a. Scope

On January 28, 2011, the licensee proctored the administration of the written examinations to all eleven applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on February 7, 2011.

The NRC examination team administered the various portions of the operating tests to all eleven applicants on January 31 - February 3, 2011.

b. Findings

No findings were identified.

All of the applicants passed the written examination and all parts of the operating test. The final written examinations, final operating test and post-examination analysis may be accessed in the ADAMS system under the accession numbers noted in the attachment. At the request of the facility licensee, public release of the final written examination will be delayed for two years. There were no post-examination comments as indicated in the licensee submittal.

.4 Simulation Facility Performance

a. Scope

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

b. Findings

No findings were identified.

.5 Examination Security

a. Scope

The NRC examiners reviewed examination security during both the onsite preparation week and examination administration week for compliance with 10 CFR 55.49 and NUREG-1021. Plans for simulator security and applicant control were reviewed and discussed with licensee personnel.

b. Findings

No findings were identified.

The licensee identified possible exam security issues with respect to installed cameras in certain areas of the plant and initiated Condition Report CR-ANO-C-02836. The chief examiner was notified prior to any in-plant job performance measure development or validation activities. The licensee developed an interim guidance document that ensured cameras would not compromise in-plant examination activities for this examination, and a Condition Report was initiated for Entergy to develop a fleet-wide procedure to address this issue. The licensee also evaluated whether or not compromises could have occurred at both units during the last two years of examination activities, including requalification. No compromises were identified.

40A6 Meetings, Including Exit

The chief examiner presented the preliminary examination results to Ms. Sherrie Cotton, Training Manager, Mr. Charles O'Dell, Assistant Operations Manager, and other members of the staff on February 3, 2011. A telephonic exit was conducted on February 17, 2011, between Messrs. Gabriel Apger, Chief Examiner, and Randall Martin, Training Superintendent.

The licensee did not identify any information or materials used during the examination as proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

C. Simpson, Training Superintendent
S. Coffman, Licensing

NRC Personnel

A. Sanchez, Senior Resident Inspector

ADAMS DOCUMENTS REFERENCED

Accession No. ML110740405 - FINAL WRITTEN EXAMS
(Will be released to the public on January 25, 2013)

Accession No. ML110740414 - FINAL OPERATING TEST

Accession No. ML110740415 - POST EXAM ANALYSIS