



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
1600 E. LAMAR BLVD.
ARLINGTON, TX 76011-4511

September 24, 2015

Mr. Jeremy Browning, 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 05000368/2015301

Dear Mr. Browning:

On September 15, 2015, 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 results and licensing decisions. The preliminary examination results were discussed on August 28, 2015, with Mr. T. Arnold, Training Manager, and other members of your staff. A telephonic exit meeting was conducted on September 15, 2015, with Mr. R. Martin, Operations Training Supervisor, who was provided the NRC licensing decisions.

The examination included the evaluation of seven applicants for reactor operator licenses, two applicants for instant senior reactor operator licenses, and five applicants for upgrade senior reactor operator licenses. The license examiners determined that all of the 14 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 contains 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 the NRC's Agencywide

J. Browning

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Sincerely,

/RA/

Vincent G. Gaddy, Chief
Operations Branch
Division of Reactor Safety

Docket No. 50-368
License No. NPF-6

Enclosure:
NRC Examination Report 05000368/2015301

J. Browning

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Letter to Jeremy Browning from Vincent G. Gaddy, dated September 24, 2015

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2 - NRC EXAMINATION
REPORT 05000368/2015301

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U.S. NUCLEAR REGULATORY COMMISSION

REGION IV

Docket: 50-368

License: NPF-6

Report: 05000368/2015301

Licensee: Entergy Operations, Inc.

Facility: Arkansas Nuclear One, Unit 2

Location: 1448 SR 333
Russellville, AR 72802-0967

Dates: August 24 – September 15, 2015

Inspectors: S. Garchow, Chief Examiner, Senior Operations Engineer
M. Bloodgood, Chief Examiner (Under Instruction), Operations Engineer
K. Clayton, Senior Operations Engineer
J. Kirkland, Senior Operations Engineer

Approved By: Vincent G. Gaddy, Chief
Operations Branch
Division of Reactor Safety

SUMMARY

ER 05000368/2015301; 08/24/2015 – 09/15/2015; Arkansas Nuclear One, Unit 2; Initial Operator Licensing Examination Report.

NRC examiners evaluated the competency of seven applicants for reactor operator licenses, two applicants for instant senior reactor operator licenses 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 10. The written examination was administered by the licensee on September 9, 2015. NRC examiners administered the operating tests on August 24-28, 2015.

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

A. NRC-Identified and Self-Revealing Findings

None.

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. 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

No findings were identified.

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 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 September 9, 2015, the licensee proctored the administration of the written examinations to all fourteen applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on September 10, 2015.

The NRC examination team administered the various portions of the operating tests to all applicants on August 24-28, 2015.

b. Findings

No findings were identified.

All applicants passed the written examination and all parts of the operating test. The final written examinations and post examination analysis and comments may be accessed in the ADAMS system under the accession numbers noted in the attachment.

The examination team noted two generic weaknesses associated with applicant performance on the dynamic scenario and in-plant JPM sections of the operating tests. The applicants displayed a weakness in board operation proficiency by the Senior Reactor Upgrade applicants and all applicants were confused with the procedural guidance for shifting inverters. Copies of all individual examination reports were sent to the facility Training Manager for evaluation and determination of appropriate remedial training.

.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 for examination development 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.

40A6 Meetings, Including Exit

The chief examiner presented the preliminary examination results to Mr. T. Arnold, Training Manager, and other members of the staff on August 28, 2015. A telephonic exit was conducted on September 15, 2015, between Mr. S. Garchow, Chief Examiner, and Mr. R. Martin, Operations Training Supervisor.

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

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

T. Arnold, Training Manager
R. Martin, Operations Training Supervisor
C. Simpson, Examination Team Lead, Operations Training Instructor
D. Lacy, Operating Examination Author, Simulator Instructor
M. Foster, Examination Author, Operations Training Instructor

NRC Personnel

B. Tindell, Senior Resident Inspector

ADAMS DOCUMENTS REFERENCED

Accession No. ML15264A681 - FINAL WRITTEN EXAMINATIONS
Accession No. ML15264A719 - FINAL OPERATING TEST
Accession No. ML15264A749 - POST EXAMINATION ANALYSIS