



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

August 23, 2002

Garry L. Randolph, Senior Vice
President and Chief Nuclear Officer
Union Electric Company
P.O. Box 620
Fulton, Missouri 65251

SUBJECT: CALLAWAY PLANT - INITIAL EXAMINATION REPORT 50-483/02-301

Dear Mr. Randolph:

On August 2, 2002, the NRC completed an examination at your Callaway Plant. The enclosed report documents the examination findings which were discussed on July 29 through August 2, 2002, with S. Sandbothe, Operations Superintendent, and other members of your staff.

The examination included the evaluation of 7 applicants for reactor operator licenses and 3 applicants for senior reactor operator licenses. We determined that all of the 10 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 your response 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).

Sincerely,

/RA/

Anthony T. Gody, Chief
Operations Branch
Division of Reactor Safety

Docket: 50-483
License: NPF-30

Enclosure:
NRC Examination Report
50-483/02-301

Union Electric Company

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ENCLOSURE

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

Docket.: 50-483
License: NPF-30
Report No.: 50-483/02-301
Licensee: Union Electric Company
Facility: Callaway Plant
Location: Junction Highway CC and Highway O
Fulton, Missouri
Dates: July 29 through August 2, 2002
Inspectors: G. Johnston, Sr. Operations Engineer
M. Murphy, Sr. Operations Engineer
P. Gage, Sr. Operations Engineer
M. Haire, Operations Engineer (Observation only, training)
Approved By: A. Gody, Chief, Operations Branch
Division of Reactor Projects

EXECUTIVE SUMMARY

Callaway Plant
NRC Examination Report 50-483/02-301

IR 05000483/02-301, on 7/29-8/2/2002, Ameren UE, Inc., Call Away Plant, initial examination of applicants for operator licenses.

An NRC examination team evaluated the competency of seven applicants for reactor operator and three applicants for senior reactor operator licenses at the Callaway Plant. 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 August 7, 2002, by facility proctors in accordance with instructions provided by the chief examiner. The NRC examiners administered the operating tests on July 29 through August 2, 2002.

Cross-cutting Issues: Human Performance

- No findings of significance were identified.

Report Details

4. OTHER ACTIVITIES

4OA4 Initial License Examinations

.1 Operator Knowledge and Performance

a. Examination Scope

On August 7, 2002, the licensee proctored the administration of the written examination to all 10 applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on August 12, 2002.

The NRC examination team administered the various portions of the operating examination to the applicants on July 29 through August 2, 2002. The 7 applicants for reactor operator licenses 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 2 applicants that were seeking senior reactor operator licenses each 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 individual upgrading from a reactor operator license to senior reactor operator 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

Ten of the 10 applicants passed all parts of the examinations. The applicants demonstrated good 3-way communications, alarm response, and peer checking. For the written examinations, the reactor operator applicants average score was 92.9 percent and ranged from 88.0 to 96.0 percent. The scores for the senior operator applicants averaged 93.3 percent and ranged from 89.0 to 96.0 percent. The overall written examination average was 93.0 percent. The text of the examination questions may be accessed in the ADAMS system with the accession numbers as noted in the attachment.

The licensee conducted a performance analysis for the written examinations, submitting them to the chief examiner on August 8, 2002. A total of seven questions were missed by 50 percent or more of the applicants. The analysis identified four questions common to both the senior operator and reactor operator written examinations that evidenced knowledge deficiencies. There were three questions from the senior operator portion of the written examination that also evidenced knowledge deficiencies. These deficiencies were determined to not involve common knowledge areas. No remediation training was determined to be necessary following the examinations.

No findings of significance 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 February 28, 2002. The chief examiner reviewed the submittal against the requirements of NUREG-1021, Revision 8, Supplement 1, and provided comments to the licensee. The facility licensee submitted the final draft operating examination package on May 17, 2002. The chief examiner reviewed the draft submittal against the requirements of NUREG-1021, Revision 8, Supplement 1, and provided comments to the licensee on the operating examination on June 10, 2002. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of July 7, 2002. The licensee satisfactorily completed comment resolution on July 10, 2002. The licensee submitted a letter on August 7, 2002, which indicated that there were no comments regarding the written examination.

b. Findings

Region IV 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 of significance 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 of significance were identified.

.4 Examination Security

a. Scope

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

b. Observations and Findings

No findings of significance were identified.

40A5 Management Meetings

.1 Exit Meeting Summary

The chief examiner presented the examination results to Mr. Scott Sandbothe at the conclusion of the operating examination on August 2, 2002. The licensee acknowledged the findings presented.

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

ATTACHMENT

PARTIAL LIST OF PERSONS CONTACTED

Licensee

R. Barton, Shift Supervisor, Operations Training
S. Halvorson, General Supervisor
S. Henderson, Operating Supervisor
D. Lantz, Shift Supervisor
B. Moody, Operating Supervisor
S. Putthoff, Operating Supervisor
M. Reidmeyer, Regulatory Affairs Supervisor
S. Sandbothe, Operations Superintendent

NRC

No site personnel present.

ADAMS DOCUMENTS REFERENCED

Accession No.:

ML 022340561

Final Reference Exam