

UNION ELECTRIC COMPANY

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DONALD F. SCHNELL
VICE PRESIDENT

May 29, 1984

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Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

ULNRC-834

DOCKET NUMBER 50-493
CALLAWAY PLANT, UNIT 1
FSAR CHAPTER 14 ABSTRACT CHANGES

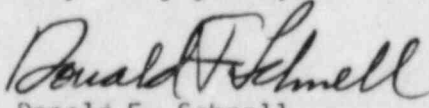
Union Electric has reviewed and approved changes to two FSAR Chapter 14 startup test abstracts. These changes are transmitted at this time for your information.

The first change concerns Rod Position Indication System Test S-07SF04 (FSAR Section 14.2.12.3.28). The prerequisites are changed to allow this test to be done at cold shutdown conditions. The test methodology is changed to delete the specific reference to step increments at which the test is run. The control rod banks are withdrawn and position verified at 24 step increments while the shutdown bank positions are verified at ≤ 18 steps and ≥ 210 steps.

The second change concerns Nuclear Instrumentation System Test S-07SE01 (FSAR Section 14.2.12.3.44). The change allows the source range channels to be tested independent of the intermediate and power range channels. The source range will be tested prior to core loading and the intermediate and power ranges will be tested prior to initial criticality. This is consistent with the Callaway Technical Specifications (Spec. 3.3.1 and Table 3.3-1) and Regulatory Guide 1.68.

Revised FSAR pages which reflect these changes are attached. These will be formally incorporated in the next revision of the FSAR.

Very truly yours,


Donald F. Schnell

DS/nld
Attachment

cc: J. Holonich

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STATE OF MISSOURI)
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CITY OF ST. LOUIS)

Donald F. Schnell, of lawful age, being first duly sworn upon oath says that he is Vice President-Nuclear and an officer of Union Electric Company; that he has read the foregoing document and knows the content thereof; that he has executed the same for and on behalf of said company with full power and authority to do so; and that the facts therein stated are true and correct to the best of his knowledge, information and belief.

By Donald F. Schnell
Donald F. Schnell
Vice President
Nuclear

SUBSCRIBED and sworn to before me this 29th day of May, 1984

William W. Babst
Notary Public
My Commission expires July 1, 1986

cc: Glenn L. Koester
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SNUPPS

14.2.12.3.28 Rod Position Indication System (S-07SF04)

14.2.12.3.28.1 Objectives

To verify that the rod position indication system satisfactorily performs required indication and alarm functions for each individual rod and that each rod operates satisfactorily over its entire range of travel.

14.2.12.3.28.2 Prerequisites

- a. ~~Reactor at hot shutdown no-load operating temperature and pressure.~~
- b. ~~At least one reactor coolant pump in service with reactor coolant boron concentration not less than specified in the technical specifications for refueling shutdown.~~
- a. Reactor at Cold Shutdown

14.2.12.3.28.3 Test Method

- a. All rod banks will be fully withdrawn by bank ~~in 20 step increments~~ while recording analog output voltage, control room position readout, and the group step position indication.
- b. In addition, the pulse-to-analog converter chassis bank position digital readout will be the recorder for all control rod banks.

14.2.12.3.28.4 Acceptance Criteria

The rod position indication system performs the required indication alarm functions, and each rod operates over its entire range of travel within the limits of the rod position indication instruction manual and the plant precautions, limitations, and setpoints manual

SNUPPS

14.2.12.3.44 Nuclear Instrumentation System Test (S-07SE01)

14.2.12.3.44.1 Objectives

The purpose of this test is to verify that the nuclear instrumentation system performs the required indications and control functions through the source, ~~intermediate, and power range~~ of operation prior to core loading, *and through the intermediate and power ranges prior to initial criticality.*

14.2.12.3.44.2 Prerequisites

- a. The nuclear instrumentation system is installed, calibrated, aligned, and operational for a period of at least 4 hours.
- ~~b. The plant is at ambient temperature and pressure.~~

14.2.12.3.44.3 Test Method

- a. The source and intermediate range channels are subjected to various test signals to verify that the appropriate indicators alarm, illuminate, or actuate, and the source range local and remote speakers function.
- b. The power range channels are subjected to various test signals to observe proper meter reading and function of the comparator and rate circuitry.
- c. The high voltage circuitry of the source and intermediate range channels is tested.

14.2.12.3.44.4 Acceptance Criteria

The control and indication functions and the reactor trip set points of the nuclear instrumentation system source, intermediate, and power range channels have been verified.