



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-327

SEQUOYAH NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2
License No. DPR-77

1. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for amendment to the Sequoyah Nuclear Plant, Unit 1 (the facility) Facility Operating License No. DPR-77, filed by the Tennessee Valley Authority (licensee), dated February 5, 1981 and December 11, 1980 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the license, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public, and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is hereby amended by page changes to the Appendix A Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) and C.2.(22)D(3) of Facility Operating License No. DPR-77 are hereby amended to read as follows:

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(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 2, are hereby incorporated into the license. The licensee shall operate the facility in accordance with the Technical Specifications and the changed procedures.

(22)D(3) Hydrogen Control Measures (Section 22.2.II.B.7)

During the interim period of operation, TVA shall continue a research program on hydrogen control measures and the effects of hydrogen burns on safety functions and shall submit to the NRC quarterly reports on that research program.

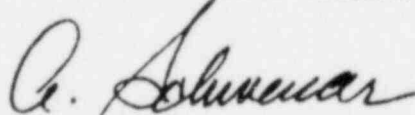
(a) TVA shall amend its research program on hydrogen control measures to include, but not limited to, the following items:

- (i) Improved calculational methods for containment temperature and ice condenser response to hydrogen combustion and local detonation.
- (ii) Confirmatory tests on selected equipment exposed to hydrogen burns.
- (iii) New calculations to predict differences between expected equipment temperature environments and containment temperatures.
- (iv) Evaluate and resolve any anomalous results from the ongoing test program.

(b) The results of these investigations will be provided to the staff for review in May 1981. A schedule for confirmatory tests beyond this date will be provided consistent with the requirement to meet the January 31, 1982 deadline, Section (22)D(2) of the license.

3. This amended license is effective as of February 9, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

Attachment:
Appendix A Technical
Specification changes

Date of Issuance:

FEB 9 1981

ATTACHMENT TO LICENSE AMENDMENT NO. 2
FACILITY OPERATING LICENSE NO. DPR-77
DOCKET NO. 50-327

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

3/4 6-25a
3/4 6-25b
B3/4 6-4a

CONTAINMENT SYSTEMS

HYDROGEN CONTROL INTERIM DISTRIBUTED IGNITION SYSTEM

LIMITING CONDITION FOR OPERATION

3.6.4.3 The primary containment interim distributed ignition system shall be operable.

APPLICABILITY: MODES 1 and 2.

ACTION

With the interim distributed ignition system inoperable, restore the inoperable system to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours.

SURVEILLANCE REQUIREMENTS

- 4.6.4.3 The interim distributed ignition system shall be demonstrated OPERABLE:
- a. At least once per 92 days by energizing the supply breakers and verifying that at least 31 glow plugs are energized.
 - b. At least once per 18 months by:
 1. Verifying the cleanliness of each glow plug by a visual inspection.
 2. Energizing each glow plug and verifying a surface temperature of at least 1500°F.

EMERGENCY OPERATING INSTRUCTION CHANGES
FOR USING INTERIM DISTRIBUTED IGNITION SYSTEMS

EOI

<u>No.</u>	<u>Change</u>	<u>Text</u>
EOI-0	Add to Section II.B	11. Energize power supply to U-1 controlled hydrogen ignition system by closing breakers <u>10, 11, and 12</u> in Standby Lighting Cabinet LS-4 (near CCS surge tank).
EOI-1A	Add to Section II.G	2. Ensure controlled hydrogen ignition system is in service per EOI-0, Section II.B.11.
EOI-1A	Delete from Section II.00.5	Place H ₂ purge system in service as follows: a. If the containment atmosphere reaches 3% by volume, place the H ₂ purge system in service per SOI-83.1.

CONTAINMENT SYSTEMS

BASES

3/4.6.4.3 HYDROGEN CONTROL INTERIM DISTRIBUTED IGNITION SYSTEM

The operability of at least 31 of the 32 ignitors in the hydrogen control distributed ignition system will maintain an effective coverage throughout the containment. This system of ignitors will initiate combustion of any significant amount of hydrogen released after a degraded core accident. This system is to ensure burning in a controlled manner as the hydrogen is released instead of allowing it to be ignited at high concentrations by a random ignition source.