

January 25, 1988

Docket Nos. 50-327/328

Mr. S. A. White  
Manager of Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: HIGH PRESSURE FIRE PROTECTION SYSTEM (TAC 00193/00194) (TS 87-26)

Re: Sequoyah Nuclear Plant, Units 1 and 2

The Commission has issued the enclosed Amendment No. 66 to Facility Operating License No. DPR-77 and Amendment No. 58 to Facility Operating License No. DPR-79 for the Sequoyah Nuclear Plant, Units 1 and 2, respectively. These amendments are in response to your application dated July 2, 1987. The amendments modify Technical Specification (TS) Section 3/4.7.11, Fire Suppression Systems, to reflect changes in the minimum flow and pressure requirements for the High Pressure Fire Protection System (HPFPS).

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

Original signed by:

Gary G. Zech, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Enclosures:

1. Amendment No. 66 to License No. DPR-77
2. Amendment No. 58 to License No. DPR-79
3. Safety Evaluation

cc w/enclosures:  
See next page

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SH Lewis  
1/20/88

Subject to Greg Berry's  
modifications noted in  
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GZech  
1/25/88

January 25, 1988

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Original signed by:

Gary G. Zech, Assistant Director  
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TVA Projects Division  
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OSP:KVA/PA  
JKelly:pw  
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OGC-BETH/72  
S H Lewis  
1/20/88

Subject to Greg Berry's  
modification noted in  
S.E.  
TVA:AD/P  
GGZech  
1/15/88



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

January 25, 1988

Docket Nos. 50-327/328

Mr. S. A. White  
Manager of Nuclear Power  
Tennessee Valley Authority  
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SUBJECT: HIGH PRESSURE FIRE PROTECTION SYSTEM (TAC 00193/00194) (TS 87-26)

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A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gary G. Zech".

Gary G. Zech, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Enclosures:

1. Amendment No. 66 to License No. DPR-77
2. Amendment No. 58 to License No. DPR-79
3. Safety Evaluation

cc w/enclosures:  
See next page

Mr. S. A. White  
Tennessee Valley Authority

Sequoyah Nuclear Plant

cc:

General Counsel  
Tennessee Valley Authority  
400 West Summit Hill Drive  
E11 B33  
Knoxville, Tennessee 37902

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
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Atlanta, Georgia 30323

Mr. R. L. Gridley  
Tennessee Valley Authority  
5N 157B Lookout Place  
Chattanooga, Tennessee 37402-2801

Resident Inspector/Sequoyah NP  
c/o U.S. Nuclear Regulatory Commission  
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Soddy Daisy, Tennessee 37379

Mr. H. L. Abercrombie  
Tennessee Valley Authority  
Sequoyah Nuclear Plant  
P.O. Box 2000  
Soddy Daisy, Tennessee 37379

Mr. Richard King  
c/o U.S. GAO  
1111 North Shore Drive  
Suite 225, Box 194  
Knoxville, Tennessee 37919

Mr. M. R. Harding  
Tennessee Valley Authority  
Sequoyah Nuclear Plant  
P.O. Box 2000  
Soddy Daisy, Tennessee 37379

Tennessee Department of  
Public Health  
ATTN: Director, Bureau of  
Environmental Health Services  
Cordell Hull Building  
Nashville, Tennessee 37219

Mr. D. L. Williams  
Tennessee Valley Authority  
400 West Summit Hill Drive  
W10 B85  
Knoxville, Tennessee 37902

Mr. Michael H. Mobley, Director  
Division of Radiological Health  
T.E.R.R.A. Building  
150 9th Avenue North  
Nashville, Tennessee 37203

County Judge  
Hamilton County Courthouse  
Chattanooga, Tennessee 37402

Dr. Henry Myers, Science Advisor  
Committee on Interior  
and Insular Affairs  
U.S. House of Representatives  
Washington, D.C. 20515



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. 66  
License No. DPR-77

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated July 2, 1987, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, 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.

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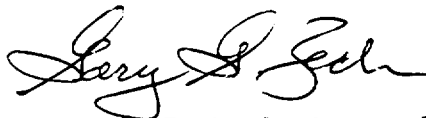
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of Facility Operating License No. DPR-77 is hereby amended to read as follows:

(2). Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 66, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Gary G. Zech, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: January 25, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 66

FACILITY OPERATING LICENSE NO. DPR-77

DOCKET NO. 50-327

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

3/4 7-31

3/4 7-32

INSERT

3/4 7-31

3/4 7-32

PLANT SYSTEMS

3/4.7.11 FIRE SUPPRESSION SYSTEMS

FIRE SUPPRESSION WATER SYSTEM

LIMITING CONDITION FOR OPERATION

---

3.7.11.1 The fire suppression water system shall be OPERABLE with:

- a. Two fire suppression pumps, each with a capacity of 1653 gpm, with their discharge aligned to the fire suppression header,
- b. An OPERABLE flow path capable of taking suction from the forebay and transferring the water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant curb valves, the last valve ahead of the water pressure alarm device on each sprinkler or hose standpipe, and the last valve ahead of the deluge valve on each deluge or spray system required to be OPERABLE per Specifications 3.7.11.2 and 3.7.11.4.

APPLICABILITY: At all times.

ACTION:

- a. With only one pump OPERABLE, restore the inoperable equipment to OPERABLE status within 7 days or, in lieu of any other report required by Specification 6.6.1, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 30 days outlining the plans and procedures to be used to restore the inoperable equipment to OPERABLE status or to provide an alternate backup pump or supply. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.
- b. With the fire suppression water system otherwise inoperable:
  1. Establish a backup fire suppression water system within 24 hours, and
  2. In lieu of any other report required by Specification 6.6.1, submit a Special Report in accordance with Specification 6.9.2:
    - a) By telephone within 24 hours,
    - b) Confirmed by telegraph, mailgram or facsimile transmission no later than the first working day following the event, and



## PLANT SYSTEMS

### ACTION: (Continued)

- c) In writing within 14 days following the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

### SURVEILLANCE REQUIREMENTS

---

- 4.7.11.1 The fire suppression water system shall be demonstrated OPERABLE:
- a. At least once per 31 days on a STAGGERED TEST BASIS by starting each electric motor driven pump and operating it for at least 15 minutes on recirculation flow.
  - b. At least once per 31 days by verifying that each valve (manual, power operated or automatic) in the flow path is in its correct position.
  - \* c. At least once per 6 months by performance of a system flush.
  - d. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
  - e. At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:
    1. Verifying that each automatic valve in the flow path actuates to its correct position,
    2. Verifying that each pump develops at least 1653 gpm at a system head of 338 feet,
    3. Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and
    4. Verifying that the No. 1 fire pump starts to maintain the fire suppression water system pressure greater than or equal to 125 psig and that the No. 2 fire pump also starts automatically within  $10 \pm 2$  seconds when the fire suppression water system is not maintained greater than or equal to 125 psig by the No. 1 pump.
  - f. At least once per 3 years by performing a flow test of the system in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association.

\*Note: These flushes should coincide with the chlorination of the raw service and fire suppression water system. These flushes should be run, one between April 1 and June 30, and the other between September 1 and November 15.

Within the prescribed spring and fall test period, deviation from the six-month performance frequency is authorized.



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

TENNESSEE VALLEY AUTHORITY  
DOCKET NO. 50-328  
SEQUOYAH NUCLEAR PLANT, UNIT 2  
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 58  
License No. DPR-79

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated July 2, 1987, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, 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 amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of Facility Operating License No. DPR-79 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 58, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Gary G. Zech, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: January 25, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 58

FACILITY OPERATING LICENSE NO. DPR-79

DOCKET NO. 50-328

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

3/4 7-43

3/4 7-44

INSERT

3/4 7-43

3/4 7-44

PLANT SYSTEMS

3/4.7.11 FIRE SUPPRESSION SYSTEMS

FIRE SUPPRESSION WATER SYSTEM

LIMITING CONDITION FOR OPERATION

---

3.7.11.1 The fire suppression water system shall be OPERABLE with:

- a. Two fire suppression pumps, each with a capacity of 1653 gpm, with their discharge aligned to the fire suppression header, and
- b. An OPERABLE flow path capable of taking suction from the forebay and transferring the water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant curb valves, the last valve ahead of the water pressure alarm device on each sprinkler or hose standpipe, and the last valve ahead of the deluge valve on each deluge or spray system required to be OPERABLE per Specifications 3.7.11.2 and 3.7.11.4.

APPLICABILITY: At all times.

ACTION:

- a. With only one pump OPERABLE restore the inoperable equipment to OPERABLE status within 7 days or, in lieu of any other report required by Specification 6.6.1, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 30 days outlining the plans and procedures to be used to restore the inoperable equipment to OPERABLE status or to provide an alternate backup pump or supply. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.
- b. With the fire suppression water system otherwise inoperable:
  1. Establish a backup fire suppression water system within 24 hours, and
  2. In lieu of any other report required by Specification 6.9.1, submit a Special Report in accordance with Specification 6.9.2:
    - a) By telephone within 24 hours,
    - b) Confirmed by telegraph, mailgram or facsimile transmission no later than the first working day following the event, and

## PLANT SYSTEMS

### ACTION: (Continued)

- c) In writing within 14 days following the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

## SURVEILLANCE REQUIREMENTS

---

### 4.7.11.1 The fire suppression water system shall be demonstrated OPERABLE:

- a. At least once per 31 days on a STAGGERED TEST BASIS by starting each electric motor driven pump and operating it for at least 15 minutes on recirculation flow.
- b. At least once per 31 days by verifying that each valve (manual, power operated or automatic) in the flow path is in its correct position.
- \* c. At least once per 6 months by performance of a system flush.
- d. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- e. At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:
  1. Verifying that each automatic valve in the flow path actuates to its correct position,
  2. Verifying that each pump develops at least 1653 gpm at a system head of 338 feet,
  3. Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and
  4. Verifying that the No. 1 fire pump starts to maintain the fire suppression water system pressure greater than or equal to 125 psig, and that the No. 2 fire pump starts automatically within  $10 \pm 2$  seconds if the fire suppression water system is not maintained at greater than or equal to 125 psig by the No. 1 pump.
- f. At least once per 3 years by performing a flow test of the system in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association.

\*Note: These flushes should coincide with the chlorination of the raw service and fire suppression water system. These flushes should be run, one between April 1 and June 30, and the other between September 1 and November 15.

Within the prescribed spring and fall test period, deviation from the six-month performance frequency is authorized.



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

SAFETY EVALUATION BY THE OFFICE OF SPECIAL PROJECTS

SUPPORTING AMENDMENT NO. 66 TO FACILITY OPERATING LICENSE NO. DPR-77

AND AMENDMENT NO. 58 TO FACILITY OPERATING LICENSE NO. DPR-79

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-327 AND 50-328

1.0 INTRODUCTION

By letter dated July 2, 1987 the Tennessee Valley Authority (TVA) requested amendments to the Sequoyah Nuclear Plant, Units 1 and 2 Appendix A Technical Specifications (TS). The proposed amendments would modify TS Section 3/4.7.11, Fire Suppression Systems, to reflect changes in the flow and pressure requirements of the High Pressure Fire Protection System (HPFPS) pumps.

In order to meet Appendix R requirements the licensee has significantly increased the coverage of areas in Sequoyah Units 1 and 2 by the plant's HPFPS. The increased coverage resulted in a higher design point for the HPFPS pumps in terms of flow and system head. The proposed change would raise the flow and pressure requirements of the design point to assure a sufficient water supply for the modified HPFPS during the design fire condition.

2.0 EVALUATION

Water for fire protection is provided from the river by four pumps located in the intake pumping station. Each pump is rated at 1500 gallons per minute (gpm) at a system head of 415 feet. For design purposes only two pumps are assumed to be operable during a fire. The fire protection system is also interconnected with the raw service water system (RSWS) which provides system pressure from supply tanks on the roof of the auxiliary building. When the fire pumps actuate, the storage tanks are automatically isolated from the HPFPS. There are, however, RSWS interconnections with the HPFPS that will still require a supply during a fire demand. Water for the RSWS demands is normally supplied by three RSWS 500 gpm pumps which fill the supply tanks on the auxiliary building roof. Because the supply tanks are isolated when the fire pumps are started, the RSWS demands must be supplied by the fire pumps. The licensee determined the RSWS demand on the fire pumps to be 1635 gpm.

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The RSWS demand consists of such items as the Makeup Water Treatment Plant (44 gpm), Office Building Chillers (660 gpm), Hot Machine Shop (120 gpm), Service Building Air Conditioners (141 gpm), Hypochlorite Building (75 gpm), and Yard Sprinkling and miscellaneous uses (200 gpm). The licensee also uses 250 gpm for backwashing the strainers. In the existing TS a flow of 500 gpm was assumed for backwashing two strainers at a time. This assumption was reconsidered by the licensee and it was determined to be extremely unlikely because the alignment for valves necessary for backwashing the strainers is operator controlled; also the strainer backwash time is short (about 5 minutes). Hence, the flow demand on the fire pumps for strainer backwashing was reduced from 500 gpm to 250 gpm.

The fire demand flow was determined from a series of trial and error calculations to determine the flow to the hydraulically most remote area in accordance with National Fire Protection Association (NFPA) standards 13 and 15. The most critical fire demand was determined to be the opening of deluge valves 0-26-1521 and 0-26-2066 in the Reactor Auxiliary Building. The required fire demand from these valves is 1170 gpm with a required head at the pump of 338 feet. Also included for fire fighting was a hose demand of 250 gpm.

The total flow to be supplied by two fire pumps in the Intake Structure is then 3306 gpm or 1653 gpm per pump. The demand point calculated by the licensee (1653 gpm, 338 ft) corresponds to a curve parallel to the manufacturer's pump curve and 10% below it (regarding head developed) at the rated capacity of 1500 gpm and 376 feet.

The staff agrees with the procedures used to determine the fire demands and the additional Raw Service Water demands on the fire pumps. Therefore, the TS as modified will ensure an adequate water supply for fire fighting. Also, the margin between the manufacturer's curve and the TS design point will allow margin for maintenance or replacement of the pump before the TS value is violated.

### 3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes to the surveillance requirements. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement nor environmental assessment need be prepared in connection with the issuance of the amendments.



#### 4.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of these amendments will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: R. Wescott

Dated: January 25, 1988

January 25, 1988

MEMORANDUM FOR: Sholly Coordinator  
FROM: Gary G. Zech, Assistant Director  
for Projects, OSP  
SUBJECT: REQUEST FOR PUBLICATION IN BI-WEEKLY FR NOTICE - NOTICE  
OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE  
(TAC 00193/00194)

Tennessee Valley Authority, Docket Nos. 50-327 and 50-328, Sequoyah Nuclear  
Plant, Units 1 and 2, Hamilton County, Tennessee

Date of application for amendments: July 2, 1987 (TS 87-26)

Brief description of amendments: The amendments modify Technical Specification  
Section 3/4.7.11, Fire Suppression Systems, to reflect changes in the minimum  
flow and pressure requirements for the High Pressure Fire Protection System.

Date of issuance: January 25, 1988

Effective date: January 25, 1988

Amendment Nos.: 66, 58

Facility Operating Licenses Nos. DPR-77 and DPR-79. Amendments revised the  
Technical Specifications.

Date of initial notice in FEDERAL REGISTER: November 4, 1987 (52 FR 42370)

The Commission's related evaluation of the amendment is contained in a Safety  
Evaluation dated January 25, 1988.

No significant hazards consideration comments received: No

Local Public Document Room location: Chattanooga-Hamilton County Library,  
1001 Broad Street, Chattanooga, Tennessee 37402.

Original signed by:

Gary G. Zech, Assistant Director  
for Projects, OSP

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Projects Reading  
JKelly

GZech CJamerson  
Sholly Coordinator (orig & 1)

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1/20/88

*GGZech*  
VA:AD/P  
GGZech  
1/25/88