

Socket Nos. 50-327  
50-328

FEB 11 1976

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Tennessee Valley Authority  
Attn: Mr. James E. Watson  
Manager of Power  
818 Power Building  
Chattanooga, Tennessee 37401

Gentlemen:

In response to your request of October 28, 1975, the Nuclear Regulatory Commission has issued an Order extending the construction completion dates for the Sequoyah Nuclear Plant, Units 1 and 2. In lieu of the dates previously specified in Construction Permits Nos. CPPR-72 and CPPR-73, the latest completion dates have been extended to September 1, 1977, and May 1, 1978, respectively.

A copy of the Order which has been transmitted to the Office of the Federal Register for publication, and a copy of the Staff's evaluation, are enclosed for your information.

Sincerely,

Original signed by  
K. Kniel

Karl Kniel, Chief  
Light Water Reactors Branch 2  
Division of Project Management

Enclosures:

- 1. Order
- 2. Staff Evaluation

ccs: See next page

8

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ccs w/encl:

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Mr, Jim Payne, Director  
Office of Urban and Federal Affairs  
1312 Andrew Jackson Building  
Nashville, Tennessee 37219

Honorable Chester L. Frost  
County Judge  
Hamilton County, Tennessee

OFFICE						
SURNAME						
DATE						

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-327 AND 50-328

ORDER EXTENDING CONSTRUCTION COMPLETION DATES

Tennessee Valley Authority is the holder of Construction Permits (Nos CPPR-72 and CPPR-73) issued by the Atomic Energy Commission\* on May 27, 1970, for construction of the Sequoyah Nuclear Plant, Units 1 and 2, presently under construction at the applicant's site in Hamilton County, Tennessee.

On October 28, 1975, the applicant filed a request for an extension of the completion dates. The reasons construction has been delayed are (1) complexities associated with the redesign to incorporate the ECCS requirements, especially the design and installation of the upper head injection system, and (2) extensive analysis for seismic qualification of cable trays and supports in all Category I structures, and resultant delay in cable installation. This action involves no significant hazards consideration; good cause has been shown for the delay; and the requested extension is for a reasonable period, the bases for which are set forth in a staff evaluation dated February 10, 1976.

\*Effective January 20, 1975, the Atomic Energy Commission became the Nuclear Regulatory Commission and permits in effect on that day continued under the authority of the Nuclear Regulatory Commission.

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IT IS HEREBY ORDERED THAT the latest completion dates for CPPR-72 and CPPR-73 are extended from December 1, 1975, and August 1, 1976, to September 1, 1977, and May 1, 1978, for Units 1 and 2, respectively.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by R. C. DeYoung

Richard C. DeYoung, Assistant Director  
for Light Water Reactors  
Division of Project Management

Date of Issuance:

FEB 11 1976

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SURNAME ➤	MService:as	HSilver	KKniel	<i>Mh</i>	RCDeYoung	
DATE ➤	2/ /76	2/ /76	2/10/76	2/10/76	2/ /76	

FEB 10 1976

EVALUATION OF REQUEST FOR EXTENSION OF  
CONSTRUCTION PERMITS NOS. CPPE-72 AND CPPR-73  
FOR SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-327 AND 50-328

Introduction

Construction permits Nos. CPPR-72 and CPPR-73 were issued by the Atomic Energy Commission (now the Nuclear Regulatory Commission (Commission)) on May 27, 1970, for the construction of the Sequoyah Nuclear Plant, Units 1 and 2. These units are presently under construction in Hamilton County, Tennessee.

In accordance with Section 185 of the Atomic Energy Act of 1954, as amended, 42 U.S.C. Section 2235, and in accordance with the Commission's regulations, 10 CFR Section 50.55, the construction permits state the earliest dates for the completion of the construction as April 1, 1973, and October 1, 1973, and the latest dates for the completion of construction as October 1, 1973, and April 1, 1974, for Units 1 and 2, respectively. By order dated October 5, 1973, the latest completion dates for CPPR-72 and CPPR-73 were extended to December 1, 1975, and August 1, 1976, respectively.

By letter dated October 28, 1975, the Tennessee Valley Authority (licensee) stated that the construction of these units cannot be completed by the present latest dates. The licensee requested that the latest completion dates be changed to September 1, 1977 for Unit 1 and May 1, 1978 for Unit 2.

Good Cause

The primary reasons cited by the applicant for these delays are discussed below:

1. Complexities associated with the redesign to incorporate the ECCS requirements, especially the completion of design and installation of the upper head injection (UHI) system, will delay construction. A delay of 15 months from the current completion dates will occur as a result of this work. This delay is in addition to that specified in the TVA letter of August 29, 1973, in which a delay because of the UHI system was discussed.

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2. Extensive analysis for seismic qualification of cable trays and supports in all Category I structures had delayed the start and ultimately the completion of cable installation. The analysis and ensuing construction will necessitate a construction delay of 15 months from the current completion dates.

Other items which result in schedule delays beyond the present latest completion date but are not now on the critical path include:

3. The addition of a natural draft cooling tower system to meet revised State standards for warm water discharges.
4. The addition of the emergency raw cooling water pumping station with low-level water intake.
5. Slippage in reanalysis of piping systems resulting in late hanger and support designs.
6. Delays in deliveries of equipment and material for critical work activities associated with several systems.
7. Continuing problems associated with productivity forecasting and difficulties with recruiting adequate numbers of employees experienced in nuclear construction.

Reasonable Period of Time

We conclude that the above factors are not completely within the licensee's control, are reasonable, and constitute good cause for delay. The staff finds that extensions of 21 months for Units 1 and 2 are reasonable to compensate for time lost in connection with reasons stated above and can reasonably allow for future contingencies.

No Significant Hazard Consideration

We find that because the request is for additional time to complete work already reviewed and approved, or to assure conformance with established requirements, the probability or consequences of accidents previously considered will not be increased, nor will any safety margins be decreased.

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Therefore, no area of significant hazard considerations is involved in connection with the extension of the construction permit completion dates. Thus, prior public notice of this action is not required.

Accordingly, issuance of an order extending the latest completion date for Unit 1 from December 1, 1975 to September 1, 1977, and for Unit 2 from August 1, 1976, to May 1, 1978, is reasonable and should be authorized.

Original signed by  
K. Kniel

Karl Kniel, Chief  
Light Water Reactors Branch #2  
Division of Project Management

HS

Harley Silver, Project Manager  
Light Water Reactors Branch #2  
Division of Project Management

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TENNESSEE VALLEY AUTHORITY  
SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-327 AND 50-328  
ORDER EXTENDING CONSTRUCTION COMPLETION DATES

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\*Effective January 20, 1975, the Atomic Energy Commission became the Nuclear Regulatory Commission and permits in effect on that day continued under the authority of the Nuclear Regulatory Commission.



IT IS HEREBY ORDERED THAT the latest completion dates for CPPR-72 and CPPR-73 are extended from December 1, 1975, and August 1, 1976, to September 1, 1977, and May 1, 1978, for Units 1 and 2, respectively.

FOR THE NUCLEAR REGULATORY COMMISSION  
Originated by  
R. C. DeYoung

Richard C. DeYoung, Assistant Director  
for Light Water Reactors  
Division of Project Management

Date of Issuance:

FEB 11 1976