

OCT 2 1973

DISTRIBUTION:

- AEC PDR
- Local PDR
- Dockets
- PWR-4 Rdg
- RP Rdg
- L Rdg
- RCDeYoung
- JHendrie
- AKenneke
- RWKlecker
- OGC
- RO (3)
- DKDavis
- EIGoulbourne
- ASchwencer
- ACRS (16)
- JPanzarella
- RVollmer

Docket Nos. 50-438
and 50-439

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

Gentlemen:

In order that we may continue our review of your application for a license to construct the Bellefonte Nuclear Plant Units 1 and 2, additional information is required. The information requested is described in the enclosure and pertains to Chapter 17 of the Preliminary Safety Analysis Report.

In order to maintain our licensing review schedule, we will need a completely adequate response to all enclosed questions by November 9, 1973. Please inform us within 7 days after receipt of this letter of your confirmation of the schedule date or the date you will be able to meet. If you cannot meet our specified date or if your reply is not fully responsive to our request, it is highly likely that the overall schedule for completing the licensing review for the project will have to be extended. Since reassignment of the staff's efforts will require completion of the new assignment prior to returning to this project, the extension will most likely be greater than the delay in your response.

Please contact us if you have any questions regarding the information requested.

Sincerely,

Original Signed

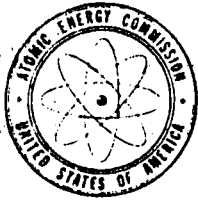
Albert Schwencer, Chief
Pressurized Water Reactors
Branch No. 4
Directorate of Licensing

Enclosure:
Request for Additional
Information

cc: Mr. R. H. Marquis

LB

OFFICE	General Counsel 629 New Sprinkle Building Knoxville, Tennessee 37902	PWR-4 DKDavis	L:C/PWR-4 ASchwencer		
SURNAME		DKDavis	ASchwencer		
DATE		10/2/73	10/2/73		



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

OCT 2 1973

Docket Nos. 50-438
and 50-439

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

Gentlemen:

In order that we may continue our review of your application for a license to construct the Bellefonte Nuclear Plant Units 1 and 2, additional information is required. The information requested is described in the enclosure and pertains to Chapter 17 of the Preliminary Safety Analysis Report.

In order to maintain our licensing review schedule, we will need a completely adequate response to all enclosed questions by November 9, 1973. Please inform us within 7 days after receipt of this letter of your confirmation of the schedule date or the date you will be able to meet. If you cannot meet our specified date or if your reply is not fully responsive to our request, it is highly likely that the overall schedule for completing the licensing review for the project will have to be extended. Since reassignment of the staff's efforts will require completion of the new assignment prior to returning to this project, the extension will most likely be greater than the delay in your response.

Please contact us if you have any questions regarding the information requested.

Sincerely,

James A. Peltier

for Albert Schwencer, Chief
Pressurized Water Reactors
Branch No. 4
Directorate of Licensing

Enclosure:
Request for Additional
Information

cc: Mr. R. H. Marquis
General Counsel
629 New Sprakle Building
Knoxville, Tennessee 37902

REQUEST FOR ADDITIONAL INFORMATION
TENNESSEE VALLEY AUTHORITY
BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2
DOCKET NOS. 50-438 AND 50-439

- 17.0 QUALITY ASSURANCE
- 17.4 Describe the position qualification requirements for the TVA QA Manager.
- 17.5 Describe the specific responsibilities and authorities of those branches or groups denoted in TVA's Quality Assurance organization shown in Figure 17.1A-2A.
- 17.6 Describe the responsibilities of those assigned to the TVA Inspection and Testing Branch (Figure 17.1A-2A of the PSAR).
- 17.7 Describe the responsibilities and authorities for the Babcock and Wilcox (B&W) inspectors, checkers and QA auditors assigned to B&W's QA organization in each of its Divisions.
- 17.8 Discuss the policy concerning "stop work" responsibility and authority for QA personnel in TVA and B&W.
- 17.9 Provide organizational charts for B&W's Barberton Works, Mt. Vernon Works, Lynchburg Commercial Nuclear Fuel Plant, Nuclear Power Generation Group and the B&W Construction Company. These charts and accompanying discussion should clearly denote the organizational arrangements implemented within B&W for this project to satisfy the requirements of Criterion I of Appendix B to 10 CFR 50 relative to independence of the checkers, auditors, inspectors, and verifiers.
- 17.10 Provide a more detailed discussion of the type, scope, and frequency of audits performed by TVA's QA Manager and his staff in TVA's Divisions of Engineering and Construction. This discussion should amplify paragraph 17.1A.1.5.2 of the PSAR including items 6, 10, and 12 of paragraph 17.1A.5.2. In addition, the role of the TVA QA Manager's staff relative to that of the TVA Inspection and Testing Branch should be further clarified.
- 17.11 Describe the portion of the QA Program in effect for work currently underway in the design and procurement of safety related equipment for which an effective program, including design control, procurement control, inspection, and audit must

already be fully implemented. The description of the QA program should identify and discuss those provisions within TVA's QA Program which demonstrate compliance with the guidance presented in the AEC-Regulatory report, "Guidance on Quality Assurance Requirements During Design and Procurement Phase of Nuclear Power Plants," dated June 7, 1973. Discuss the provisions for compliance with the draft standards in this report, identify any exceptions, and describe any alternate methods.

- 17.12 Provide descriptions of TVA's and B&W's formal indoctrination and training programs which have been or will be established for all those personnel performing QA related activities and will assure proficiency of implementation of QA procedures, requirements and changes thereto. If a program does not exist at TVA and B&W provide a schedule for implementation.
- 17.13 Describe the controls established by TVA and B&W which assure that QA policies, manuals, procedures, instructions, drawings, and specifications (including changes thereto) are originated, reviewed, distributed, received, and implemented by the responsible individual(s) or group(s).
- 17.14 Describe those procedures which identify QA related records to be retained, the retention periods, and the assigned responsibilities for TVA and B&W. Include a description of record turnover during preoperational phase activities.
- 17.15 Identify and describe those management activities on behalf of TVA and B&W which evaluate compliance with the QA Program policies and procedures, and determine effectiveness of each related program.
- 17.16 Describe the audits performed by TVA and B&W which provide comprehensive verification and evaluation of all phases of QA Program activities, to assure that the QA Program for this project is effective and meaningful and that timely corrective action is implemented. Include the frequency of the audits performed on various activities, identify the audit personnel positions, and state audit report distribution.
- 17.17 Additional description is required to permit a determination of whether TVA has an acceptable policy and program for independent acceptance inspection onsite and during construction activities, as contrasted with production type inspection carried out by construction workers and their foremen. Discuss the policy and program for physical inspection and physical inspection measurements performed by TVA (or outside) acceptance inspectors.

Distinguish between the role of such trained inspectors and the role performed by TVA's field engineers.

The discussion must show compliance with the requirements of Criterion I and Criterion X of Appendix B to 10 CFR 50.

- 17.18 Provide or reference a list of the components, systems, structures, and purchased services subject to the requirements of Appendix B to 10 CFR 50.
- 17.19 Provide sufficient description in the PSAR to permit an understanding of those internal audits performed within TVA's Divisions of Engineering, Design, and Construction. In addition to clarifying the internal audit role performed by the Division of Construction, expand the discussion to clearly indicate the specific activities audited by the QA Coordinator Staff within the Division of Engineering Design. This discussion should describe those provisions which assure that the audits are being regularly scheduled and implemented on the basis of the status and safety importance of the activities and processes being performed; and that they are initiated early enough to assure effective quality assurance during the design, procurement, contracting, and other applicable phases and efforts.