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 FACIL: 50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438  
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439

AUTH. NAME AUTHOR AFFILIATION  
 MILLS, L.M. Tennessee Valley Authority  
 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Requests extension of const completion dates until 860501  
 Unit 1 & 870501 for Unit 2. Factors contributing to const  
 delay listed.

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

January 26, 1983

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

Dear Mr. Denton:

In the Matter of the Application of ) Docket Nos. 50-438  
Tennessee Valley Authority ) 50-439

Pursuant to 10 CFR 50.55(b) (1977), the Tennessee Valley Authority (TVA) hereby requests an extension of the latest completion dates specified in the construction permits for the Bellefonte Nuclear Plant units 1 and 2. As indicated in my July 6, 1982, letter to D. G. Eisenhut, the scheduled fuel loading date for unit 1 is now May 1, 1985. Unit 2 is now scheduled for fuel loading on May 1, 1986. To provide time for completion of both units with an allowance for contingencies, we request that the latest completion date specified in Construction Permit No. CPPR-122 (unit 1) be extended to May 1, 1986, and in CPPR-123 (unit 2) to May 1, 1987.

This extension is necessary because the construction schedule has been delayed from the March 1983 unit 1 fuel load date by several factors. The following items are the identified factors contributing to the construction delay at Bellefonte.

1. The fuel load date was delayed six months in order to provide additional time for preoperational testing (based on the preoperational testing experience TVA had gained from other plants).
2. Several factors have contributed to an additional construction delay of 20 months;
  - a. The B&W Change Assessment Program (Bellefonte Upgrade Program).

These changes were a direct result of the various lessons learned and the NRC NUREGs associated with TMI-2. Because of the uncertainty involved in the various studies which had to be conducted by B&W in order to assess the true impact on the design, the detailed engineering and procurement of hardware impacted the Bellefonte schedule. The proposed changes involve the addition of 20 new control cabinets and approximately 800 new electronic devices with associated conduit, cables, and instrument tubing for each unit at Bellefonte.

Boo!

Mr. Harold R. Denton

January 26, 1983

- b. Failure to meet the required seismic hanger installation rates.

TVA has experienced the same problems associated with hanger installation rates that the industry has experienced. The installation of new supports plus the rework of supports have impacted our schedule.

- c. Delays in nuclear system flushing.

The original duration for flushing the unit 1 nuclear systems was approximately nine months. It has now been increased to a present estimate of 21 months. The major contributing factor in causing the delay is the difficulty encountered in trying to remove purge dam residuals from these systems during proof of cleanliness flushes.

- d. Continued loss of experienced engineering and engineering support personnel.

Many of TVA's experienced engineering and engineering support personnel cannot foresee any job longevity with TVA's nuclear construction program. Consequently, they are leaving for higher paying salaries. Since June 1, 1982, Bellefonte Construction has lost 39 SE-grade (engineering support) and 11 SC/SD-grade (engineering) personnel.

- e. Additional work required in various parts of the project.

Various miscellaneous changes such as additional pipe rupture restraints inside the Reactor Building, concrete lining of the ERCW supply headers, and completion of postaccident sampling facilities have been included in the construction schedule.

Mr. Harold R. Denton

January 26, 1983

The foregoing items constitute some of the factors which have contributed to the unanticipated construction delays of Bellefonte units 1 and 2 and demonstrate, in our opinion, good cause why an extension of the construction permit should be granted.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager  
Nuclear Licensing

to and subscribed before me  
26<sup>th</sup> day of Jan. 1983  
Agent M. Lowery  
Public  
Commission Expires 4/8/86  
A  
8302010450 PDR ADDCK  
8301256  
05000438 PDR

cc: U.S. Nuclear Regulatory Commission  
Region II  
Attention: Mr. James P. O'Reilly, Regional Administrator  
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Atlanta, Georgia 30303

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