

April 29, 1987

DOCKET NO(S). 50-438/439

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

SUBJECT: BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2.

The following documents concerning our review of the subject facility are transmitted for your information.

- Notice of Receipt of Application, dated \_\_\_\_\_.
- Draft/Final Environmental Statement, dated \_\_\_\_\_.
- Notice of Availability of Draft/Final Environmental Statement, dated \_\_\_\_\_.
- Safety Evaluation Report, or Supplement No. \_\_\_\_\_ dated \_\_\_\_\_.
- Environmental Assessment and Finding of No Significant Impact, dated April 28, 1987
- Notice of Consideration of Issuance of Facility Operating License or Amendment to Facility Operating License, dated \_\_\_\_\_.
- Bi-Weekly Notice; Applications and Amendments to Operating Licenses Involving No Significant Hazards Considerations, dated \_\_\_\_\_ [see page(s)] \_\_\_\_\_.
- Exemption, dated \_\_\_\_\_.
- Construction Permit No. CPPR-\_\_\_\_\_, Amendment No. \_\_\_\_\_ dated \_\_\_\_\_.
- Facility Operating License No. \_\_\_\_\_, Amendment No. \_\_\_\_\_ dated \_\_\_\_\_.
- Order Extending Construction Completion Date, dated \_\_\_\_\_.
- Monthly Operating Report for \_\_\_\_\_ transmitted by letter dated \_\_\_\_\_.
- Annual/Semi-Annual Report- \_\_\_\_\_ transmitted by letter dated \_\_\_\_\_.

Original signed by:

~~Office of Nuclear Reactor Regulation~~  
John A. Zwolinski, Assistant Director  
for Projects  
Office of Special Projects

Enclosures:  
As stated

cc: See attached list

OFFICE	OSP-AD/P						
SURNAME	JAZWolinski						
DATE	04/29/87						

Mr. S. A. White  
Tennessee Valley Authority

Bellefonte Nuclear Plant

cc:  
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Tennessee Valley Authority  
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Knoxville, Tennessee 37902

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Bellefonte Nuclear Plant  
P.O. Box 2000  
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Tennessee Department of  
Public Health  
ATTN: Director, Bureau of  
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Site Director  
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Resident Inspector, Bellefonte NP  
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TENNESSEE VALLEY AUTHORITY  
BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-438 and 439  
ENVIRONMENTAL ASSESSMENT AND FINDING  
OF NO SIGNIFICANT IMPACT

The Nuclear Regulatory Commission (the Commission) is considering issuance of an extension of the latest construction completion dates specified in Construction Permit Nos. CPPR-122 and CPPR-123 issued to Tennessee Valley Authority (TVA, the applicant) for the Bellefonte Nuclear Plant (BLN), Units 1 and 2, respectively. The facility is located at the applicant's site on a peninsula at Tennessee River Mile (TRM) 392 on the West shore of Guntersville Reservoir about 6 miles east-northeast of Scottsboro, Alabama.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action: The proposed action would extend the latest construction completion date of Construction Permit No. CPPR-122 to July 1, 1994 and the latest construction completion date of Construction Permit No. CPPR-123 to July 1, 1996. The proposed action is in response to the applicant's request dated September 30, 1986.

The Need for the Proposed Action: The proposed action is needed because the construction of the facility is not yet fully completed. The applicant states that this extension is necessary because recent power usage projections for the TVA system indicate that power from BLN Units 1 and 2 will not be needed until the early to mid-1990's. Accordingly, construction activity on BLN has been reduced so both units will be brought into operation closer to the revised load forecast need dates. According to TVA, Unit 1 is approximately 87% complete and Unit 2 is approximately 57% complete. It is estimated that an additional 24 months of work after completion of Unit 1 will be required to complete Unit 2.

- 2 -

Environmental Impacts of the Proposed Action: The environmental impacts associated with the construction of the facility have been previously discussed and evaluated in TVA's Final Environmental Statement (FES) issued in June 1974 for the construction permit stage which covered construction of both units.

The proposed extension will not allow any work to be performed that is not already allowed by the existing construction permit. The probability of accidents has not been increased and post-accident radiological releases will not be greater than previously determined, nor does the proposed extension otherwise affect radiological plant effluents. Therefore, the Commission concludes that there are no significant radiological environmental impacts associated with this proposed extension.

With regard to potential non-radiological impacts, the proposed extension involves features located entirely within the restricted area as defined in 10 CFR Part 20. It does not affect non-radiological plant effluents and has no other environmental impact. This extension does not allow any work to be performed of the type not previously authorized by the existing construction permit. Therefore, the Commission concludes that there are no significant non-radiological environmental impacts associated with this proposed extension.

Alternatives to the Proposed Action: An alternative to the proposed action would be to deny the request. Under this alternative, the applicant would not be able to complete construction of the facility. This would result in denial of the benefit of power production. This option would not eliminate the environmental impacts of construction already incurred.

If construction were halted and not completed, site redress activities would restore some small areas to their natural states. This would be a slight

- 3 -

environmental benefit, but much outweighed by the economic losses from denial of use of a facility that is nearly completed. Therefore, this alternative is rejected.

Alternative Use of Resources: This action does not involve the use of resources not previously considered in the FES for the Bellefonte Nuclear plant.

Agencies and Persons Consulted: The NRC staff reviewed the applicant's request and applicable documents referenced therein that support this extension. The NRC did not consult other agencies or persons.

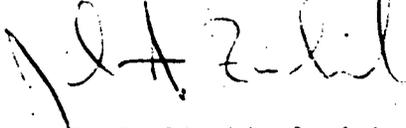
FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for this action. Based upon the environmental assessment, we conclude that this action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the request for extension dated September 30, 1986 which is available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C., and at the local public document room, Scottsboro Public Library, 1002 South Broad Street, Scottsboro, Alabama 35668.

Dated at Bethesda, Maryland this 28th day of April 1987.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John A. Zwolinski, Assistant Director  
for Projects  
Division of TVA Projects  
Office of Special Projects

TENNESSEE VALLEY AUTHORITY  
BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-438 and 439  
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Dated at Bethesda, Maryland this 28th day of April 1987.

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FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by

John A. Zwolinski, Assistant Director  
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Division of TVA Projects  
Office of Special Projects

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