

December 27, 2007

Mr. Ashok S. Bhatnagar
Senior Vice President
Nuclear Generation Development
and Construction
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 2 – RECEIPT OF LETTER REGARDING
USE OF WESTINGHOUSE EAGLE-21 PROCESS PROTECTION SYSTEM
(TAC NO. MD6311)

Dear Mr. Bhatnagar:

By letter dated December 5, 2007 (ADAMS Accession No. ML073440022), the Tennessee Valley Authority informed the U.S. Nuclear Regulatory Commission (NRC) of its intention to use the Westinghouse Eagle-21 process protection system at Watts Bar Nuclear Plant (WBN), Unit 2. The letter states that this system is currently installed in WBN, Unit 1, and that the system for Unit 2 will be designed and constructed to the same specifications and standards as the Westinghouse Eagle-21 system in WBN, Unit 1.

The July 25, 2007, Staff Requirements Memorandum instructs the NRC staff to employ the current licensing basis for WBN Unit 1 as the reference basis for the review and licensing of WBN Unit 2. The NRC staff will use this approach in reviewing the use of the Westinghouse Eagle-21 process protection system for Unit 2.

The information listed in the enclosure to this letter is needed in order for the staff to complete its review. This request was discussed with Mr. Gordon Arent of your staff, and it was agreed that a response would be provided by February 28, 2008. In addition to the technical review, installation of the Westinghouse Eagle 21 system may be subject to NRC audit and inspection activities.

If you have questions regarding this correspondence, please contact me at 301-415-4041.

Sincerely,

/RA/

Margaret Chernoff, Senior Project Manager
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-391

Enclosure: Request for Additional Information

cc w/encl: See next page

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Accession Number:

OFFICE	NRR	NRR	DE/EICB	NRR
NAME	MChernoff	BClayton	WKemper	LRaghavan
DATE	12 / 19 /07	12 / 19 /07	12 / 20 /07	12 / 27 /07

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Ashok S. Bhatnagar
Tennessee Valley Authority

WATTS BAR NUCLEAR PLANT

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REQUEST FOR ADDITIONAL INFORMATION

WATTS BAR NUCLEAR PLANT, UNIT 2

WESTINGHOUSE EAGLE-21

PROCESS PROTECTION SYSTEM

TAC NO. MD6311

DOCKET NO. 50-391

1. In the licensing review for Watts Bar Unit 2, the NRC staff will employ the Unit 1 licensing basis. In order to employ the Unit 1 licensing basis, a detailed description of the similarities and the differences between Units 1 and 2 is needed.
 - a. In the December 5, 2007, letter, Tennessee Valley Authority (TVA) stated that the "WBN Unit 2 hardware will be identical or equivalent to WBN Unit 1." Please describe the differences in the hardware and describe the process used to determine equivalency.
 - b. In the December 5, 2007, letter, TVA stated that one design change has been made to the WBN Unit 1 Eagle-21 system after initial licensing, and that this same modification will be performed for the WBN Unit 2 Eagle-21 system. Please provide a detailed description of the change and a summary of the evaluation that concluded that this change could be implemented without prior NRC approval. Also state whether this design change is reflected in the Unit 1 Final Safety Analysis Report.
2. The Safety Evaluation Report Related to the operation of Watts Bar Nuclear Plant, Units 1 and 2 (NUREG-0847) discusses the staff's review of the Westinghouse Eagle-21 System for Watts Bar Unit 1. Please provide a listing of the previous correspondence related to use of the Eagle-21 system, including hardware and software quality assurance documentation, at Watts Bar Unit 1 and state whether the previous correspondence, including any commitments made by TVA, remain valid and applicable to use of the system at Watts Bar Unit 2. Technical justification should be provided for any deviations.

Enclosure