

**From:** Lawrence Burkhart  
**To:** Brian Sepelak; Ron Fedin  
**Date:** 8/2/01 9:41AM  
**Subject:** PMTC - RAI 1

Please see the attached questions regarding the PMTC license amendment request.

REQUEST FOR ADDITIONAL INFORMATION  
REGARDING  
POSITIVE MODERATOR TEMPERATURE COEFFICIENT(PMTC)  
FOR BEAVER VALLEY POWER STATION UNIT NOS. 1 AND 2 (BVPS-1 AND 2)  
DATED JUNE 28, 2001  
(LICENSE AMENDMENT REQUEST NO. 168)

1. On page B-4, paragraph 2 lists Facility Safety Analysis Report (FSAR) analyses performed in support of the proposed PMTC. Please provide detailed quantitative and qualitative technical justification that the occurrence of these events in conjunction with operation of the plant with a PMTC will not cause reactor safety limits to be violated. Provide any technical evaluation reports by Westinghouse which demonstrate the ability to safely operate with a PMTC.
2. On page B-5, paragraph 2 states that analyses other than those listed on page B-4 were not evaluated for the proposed PMTC. Please provide supportive analyses to demonstrate that all events not evaluated will be unaffected by operation of the reactor with a positive MTC.
3. On page B-5 a discussion of "Control Systems Margin to Trip Evaluation" is provided. Please provide the analyses performed to demonstrate the effects of a positive MTC on each of the events evaluated.
4. On page B-6 a discussion on how BVPS-2 meets the Anticipated Transient Without Scram (ATWS) rule with a positive MTC is presented. Please provide quantitative and qualitative technical justification supporting the ability for BVPS-2 to comply with the ATWS rule when operating with a positive MTC. Include in this justification, information regarding the following factors for a PMTC: 1) Unfavorable exposure time and 2) ATWS core damage frequency. Additionally, please provide a copy of References 1 and 3 from your License Amendment Request (LAR) No. 168, dated June 28, 2001.
5. In your commitment list it is stated that "administrative controls" will be put in place to ensure the MTC at hot full power conditions will be less than or equal to  $-5.5 \text{ pcm}/^{\circ}\text{F}$  at all times during core life. Please provide a detailed description of the "administrative controls" to be implemented to verify this commitment is being met.

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