

October 24, 2001

MEMORANDUM TO: File

FROM: Lawrence J. Burkhart, Project Manager, Section 1
Project Directorate I **/RA/**
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: QUESTIONS ON MAIN STEAM SAFETY VALVES FOR BEAVER
VALLEY POWER STATION, UNITS 1 AND 2 (BVPS-1 AND 2)
(TAC NOS. MB2555 AND MB2556)

By letters dated January 18, June 9, and June 29, 2001, FirstEnergy Nuclear Operating Company, the licensee for the BVPS-1 and 2, submitted information requesting a license amendment to raise the plant operating power level by 1.4 percent (from 2652 MWt to 2689 MWt). Included in this submittal was a request to change Technical Specification (TS) 3/4.7.1 "Turbine Cycle - Main Steam Safety Valves (MSSVs)" and its associated Bases. The Nuclear Regulatory Commission staff reviewed the information provided and determined that additional information is necessary to complete its review.

Attached are questions on the application that have been sent to the licensee by e-mail. The e-mail was sent on October 5, 2001.

Docket Nos. 50-334 and 50-412

Attachment: E-Mail dated October 5, 2001

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ADAMS ACCESSION NUMBER: ML012880185

OFFICE	PD1-1/PM	PD1-2/LA	(A)PD1-2/SC
NAME	LBurkhart:as	MO'Brien	LRaghavan
DATE	10/24/2001	10/24/01	10/24/01

OFFICIAL RECORD COPY

From: Lawrence Burkhart
To: Brian Sepelak
Date: 10/5/01 10:45AM
Subject: MAIN STEAM SAFETY VALVE QUESTIONS

Brian,

Please see attached questions regarding you proposed changes (in letter dated 1/18/01) and let me know if you wold like to discuss with the staff.

Attachment

By letters dated January 18, 2001, June 9, 2001, and June 29, 2001, FirstEnergy Nuclear Operating Company (FENOC), the licensee for the Beaver Valley, Unit Nos. 1 and 2 (BVPS-1 and 2), submitted information requesting a license amendment to raise the plant operating power level by 1.4 percent (from 2652 MWt to 2689 MWt). Included in this submittal was a request to change Technical Specification (TS) 3/4.7.1 "Turbine Cycle - Main Steam Safety Valves (MSSVs)" and its associated Bases. The Nuclear Regulatory Commission (NRC) staff reviewed the information provided and determined that additional information is necessary to complete its review.

1. Given the maximum allowable power equation in TS Bases section 3/4.7.1.1, "Main Steam Safety Valves," the NRC staff expects that a power uprate would cause all maximum allowable power levels with inoperable MSSVs to decrease. However, not all of the proposed maximum allowable power values of Table 3.7.1, "Operable Main Steam Safety Valves versus Maximum Allowable Power," decreased as expected. To resolve this discrepancy, please provide the information used for determining the maximum allowable power levels with inoperable MSSVs in Table 3.7.1 for both BVPS-1 and 2. Include the nominal NSSS power rating of the plant (Q), minimum total steam flow rate capability of the MSSVs (w_s), heat of vaporization for the steam (h_{fg}), assumed operable MSSVs, assumed MSSV lift pressures, assumed Nuclear Instrumentation System trip channel uncertainties, and assumed calorimetric power uncertainty. Also, provide the pertinent data used for determining these values, for example, the equations and values or references used to determine w_s . Provide the above information for both the current TS values and new proposed values. Explain any variation or differences in assumptions and justify why these changes are conservative.
2. In addition to the above, the proposed TS Bases Section 3/4.7.1.1, "Main Steam Safety Valves," does not include the values for the Nuclear Instrumentation System trip channel uncertainties and calorimetric power uncertainty allowances. The TS traveler form (TSTF) for this Bases section, TSTF-235, was approved with the specific values to be included in the plant specific TS Bases. The NRC staff is generally not disposed to taking exception to language agreed to during TSTF review. Please provide your bases for the deviation from the TSTF and justify why this deviation is acceptable.