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February 27, 1986

United States Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Mr. Lester S. Rubenstein, Director
PWR Project Directorate No. 2
Office of Nuclear Reactor Regulation

SUBJECT: Beaver Valley Power Station - Unit No. 2
Docket No. 50-412
Feasibility of Deletion of Reactor Trip on Turbine Trip Below 70%
Power

REFERENCES: a) 2NRC-4-144, dated September 14, 1984
b) 2NRC-5-153, dated December 20, 1985

Gentlemen:

In Section 7.2.2.5 of the Beaver Valley Power Station Unit No. 2 (BVPS-2) Safety Evaluation Report (issued as NUREG-1057), the P-9 interlock which initiates reactor trip upon turbine trip was specified to be a maximum value of 50% power level. Attachment 1 provides an analysis addressing the feasibility of removal of the direct reactor trip upon a turbine trip at 70% power for BVPS-2.

The analysis was done principally to show that the pressurizer PORVs would normally not open during the transient. Results of the analyses show that the plant design is such that a turbine trip without a direct or immediate reactor trip represents no hazard to the integrity of the RCS or the main steam system. Pressurizer safety valves and steam generator safety valves have adequate flow capacity to limit the maximum pressures to within 110% of system design pressure. The analysis also demonstrates that for a complete loss of forced reactor coolant flow initiated from the most adverse preconditions of the turbine trip, the DNBR does not decrease below 1.30 at any time during the transient. Thus, no fuel or clad damage is predicted, and all applicable acceptance criteria are met.

Therefore, DLC believes that the analysis discussed in the attachment justifies the increase of the setpoint from 50% to 70% power level for reactor trip upon a turbine trip for BVPS-2. This analysis also provides the basis for 70% setpoint value listed for the P-9 interlock in Table 2.2-1 of the BVPS-2 draft Technical Specifications issued to the NRC in References (a) and (b).

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... Deletion of Reactor Trip ...
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RWF/wjs
NR/NRC/DELET/RT
Attachment

bcc: J. J. Carey - w/attachment
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C. Richardson (S&W)(5) - w/attachment
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T. J. Lex (W) - w/attachment
B. Hall (W) - w/attachment
DLC/Qatel - w/attachment
BV-2-NCD-SFG/Phase II
PUC Audit Distribu-
tion PDR-378 (4) - w/attachment(4)
NCD File - w/attachment

ATTACHMENT 1