



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
BEAVER VALLEY POWER STATION, UNIT NO. 1
REACTOR TRIP SYSTEM RELIABILITY
ITEM 4.2.1 AND 4.2.2 OF GENERIC LETTER 83-28

INTRODUCTION

On April 24, 1985, the NRC issued a Preliminary Safety Evaluation (SE) for the Beaver Valley Power Station, Unit No. 1, on Generic Letter 83-28, Items 4.2.1 and 4.2.2. The preliminary SE was based on the licensee's July 8, 1983 and October 30, 1984, submittals. The SE accepted the licensee's position on Item 4.2.2 and requested additional justification for his position on the 18-month preventive maintenance frequency (Item 4.2.1) on the Reactor Trip Breakers (RTBs). The licensee responded to the SE by a submittal dated June 17, 1985, in which he summarized the RTB history and performance. This SE presents our additional evaluation of the licensee's position on Item 4.2.1, based on his latest and previous submittals.

DISCUSSION AND EVALUATION

The licensee's June 17, 1985, submittal provides additional justification for his choice of an 18-month preventive maintenance frequency on the RTBs. We have reviewed the submittal with its attached tables and figures that presented the RTB history and performance in Beaver Valley Power Station, Unit 1. The following is found:

- Breaker cycles do not exceed 200 in an average 18-month period;
- The licensee's position on trending goes well beyond our minimum requirements;
- The licensee has started to trend the trip force among several other trendable parameters. Only one point is recorded for the trip force, dated December 15, 1984. However, the licensee stated in his October, 1984 response that he will continue to trend and review the trip force and several other parameters on an 18-month basis. Any unacceptable or questionable condition is identified and reported to supervision for appropriate corrective action;
- Most of the recorded repairs shown in Table 1 of the licensee's June 17, 1985, submittal involved either the control circuit or main contacts. Only one repair required maintenance on the under voltage trip attachment (UVTA) when the UVTA would not allow the breaker to stay closed. The recorded data start at January 7, 1982.

CONCLUSION

Based on the above, we find the licensee's justification for the 18-month preventive maintenance adequate. The information provided demonstrates acceptable performance using the licensee's current maintenance, surveillance and trending programs. On this basis the licensee's position on Item 4.2.1 is acceptable. Item 4.2.2 has been found acceptable in our April 24, 1985 Preliminary Safety Evaluation; the portion of that preliminary SE describing Item 4.2.2 is hereby incorporated by reference into this document.

Dated: October 8, 1985

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