

50-346 Central Files

MEMORANDUM FOR: J. M. McGough, STS Group Leader, DOR
FROM: P. S. Check, Chief, Core Performance Branch, DSS
SUBJECT: DAVIS-BESSE UNIT 1 TECHNICAL SPECIFICATIONS

The Physics Section of the Core Performance Branch has reviewed the Proof and Review Copy of the proposed Technical Specifications for Davis-Besse Unit 1. The enclosed questions and comments have been prepared.

Paul S. Check, Chief
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Enclosure:
As Stated

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DATE →	10/27/76	10/27/76	10/27/76			

QUESTIONS AND COMMENTS ON THE TECHNICAL SPECIFICATIONS FOR DAVIS-BESSE
NUCLEAR POWER STATION, UNIT 1

- 232.1
(Table 2.2-1,
Items 2 and 4) For four pump operation the high flux trip is set at 105.44% FP while the Flux- Δ Flux-Flow trip at 100% flow is set at 107.88% FP. For two and three-pump operation the setting of the Flux- Δ Flux-Flow trip is slightly lower than that for the high flux trip. Please explain the difference.
- 232.2
(Table 2.2-1,
Item 8) Why is the "High Flux/Number of Coolant Pump On" trip set at 125% FP when three pumps are operating?
- 232.3
(Table 2.2-1,
Footnote 1) Items b and c of this footnote seem inconsistent.
- 232.4
(Spec 3.1.3.6) Rod insertion limits for the period after 250 EFPD are missing.
- 232.5
(Spec 3.1.3.7) The control rod interchange is indicated to occur at 200 EFPD instead of 250 EFPD as in Spec 3.1.3.6. Figure 3.1-5 has the control rod in group 6 in the lower right corner misplaced.
- 232.6
(Spec 3.1.3.4) Recent measurements of shut down reactivity shapes as a function of rod insertion have shown that the shapes used in the FSAR may have been non-conservative. Has this information been factored into this specification?

232.7
(Bases 3/4.2)

There is no indication that potential rod bowing effects have been considered in establishing power distribution limits. These effects must be considered. Consideration will be given to the statistical combination of bowing penalties with other uncertainties if justification is provided.