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Docket No. 50-346

MEMORANDUM FOR: R. J. Bosnak, Acting Chief, Mechanical Engineering Branch, Division of Systems Safety

FROM: D. Pickett, Containment Systems Branch, Division of Systems Safety

THRU: J. Shapaker, Section B Leader, Containment Systems Branch, Division of Systems Safety

G. Lainas, Chief, Containment Systems Branch, Division of Systems Safety

SUBJECT: ACCEPTABILITY OF POSTULATED LIMITED DISPLACEMENT PIPE RUPTURE FOR DAVIS BESSE UNIT 1 REACTOR CAVITY ANALYSIS

In Amendment 39 (Revision 23) to the Davis Besse Unit 1 Final Safety Analysis Report, the applicant has revised the postulated worst case reactor cavity pipe rupture from a 14.14-ft² double-ended hot leg break to a 8.55-ft² double-ended cold leg break. In section 6.2.1.3.3 of the FSAR the applicant assumes that pipe restraints limit the hot leg break size to a 7.07-ft² single area break. Please advise the Containment Systems Branch of the acceptability of the applicant's method for determining these reactor coolant system break sizes for a conservative reactor cavity analysis.

Douglas V. Pickett
Containment Systems Branch
Division of Systems Safety

cc: R. Tedesco
G. Lainas
J. Shapaker
L. Engle
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File: Davis Besse Unit 1

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50-346
11/20/76

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