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P. A. Morris, Director
Division of Reactor Licensiag
DAVIS-BESSE - DOCXET NO. 50-346
The enclosed reviev is submitted for inclusion in your report
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## DAVTS-3ESSE

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#### Abstract

The Dovis-2esse Nuclear Powar Station has a free volume of 2.8 x $10^{6}$ cublc feet and a design prossure of 40 psig. The applicant has calculated the centa\&naent presaure transionts following loss-ofcoolant eccidents for various sized breaks. The pressure buildup for a three square foot break area was calculated to have the maxinum peak pressure of 36.0 psig.


Independent staff analyses of the three square foor break were Eade with the CONIEMT Code. The same blowdown rate, surface areas and thicknesses, and material properties were used by the staff and the applicant. The cowrzup Code calculated a peak pressure of 37.8 peiz when the Uchida condensing heat transfer coefficient was used and 35.3 paig when the Tagani correlation was used. The use of the Tagain correlation in containment pressure transient analysis has been accepted fin previous liconse applications.

Based on our calculated peak pressure of 36.8 psig and a ten percent pressure margin, the Davis-Besse containment design pressure should be 40.5 psig. Consistent with our policy in recent reviews, we recommend that the design pressure be increased from 40.0 psig to 40.5 psig .


