

MAY 27 1975

50-346

Leon Engle, Licensing Project Manager  
THRU: Robert Baer, Section A Leader, Reactor Systems Branch, TR

DAVIS-BESSE 1 APPENDIX K ECCS SUBMITTAL

As was discussed with you earlier this week, the following two items should be included in the applicant's Appendix K ECCS submittal:

1. If Davis-Besse will operate with a part-pump reactor coolant system configuration, this capability must be supported by identifying and analyzing the worst break size and location (i.e., idle loop versus operating loop). In addition, sufficient justification must be provided to conclude that the shape of the PCT versus Break Size curve would not be significantly altered by the partial loop configuration.
2. It has recently come to our attention that after a LOCA, the operability of certain critical systems may be jeopardized due to the location of certain related components (such as valve motors, busses, etc.) at or near the containment floor. Post-LOCA flooding of the containment could submerge these components and could involve such essential safety features as the safety injection system, containment isolation network, or systems needed to limit boric acid concentration in the reactor vessel during long-term core cooling. The following information must be supplied:
  - a) Whether or not any components, such as valve motors or electric busses, will be submerged following a LOCA in Davis-Besse 1.
  - b) If it is determined that such components will be flooded;
    1. Identify this equipment.
    2. Evaluate the potential consequences of flooding of this equipment for both the short term and long term (the long term should include consideration of the potential problem of excessive concentrations of boric acid.
    3. Propose design changes to solve the potential flooding problem.

G. R. Mazetis  
Reactor Systems Branch  
Division of Technical Review

OFFICE →					
SURNAME →					
DATE →					

8002130735 H

L. Engle

MAY 27 1975

cc: V. Stello  
T. Novak  
W. Minners  
R. Baer  
A. Szubiewicz

~~Central File~~  
NRR:Reading File  
RSB Reading File

OFFICE →	TR:RSB	TR:RSB				
SURNAME →	GM: [Signature] :db	RBaer				
DATE →	5/23/75	5/27/75				