

Docket No.: 50-346

AUG. 7 1975

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The Toledo Edison Company  
 ATTN: Mr. Lowell E. Roe  
 Vice President, Facilities  
 Development  
 Edison Plaza  
 300 Madison Avenue  
 Toledo, Ohio 43652

Gentlemen:

We are presently reviewing the ECCS containment pressure calculations provided in BAW-10105, "ECCS Evaluation of B&W 177 FA Raised Loop NSS", which you have referenced for the Davis-Besse Nuclear Power Station, Unit 1 ECCS evaluation.

We find that the containment input parameters selected for use in BAW-10105 have not been justified as being conservative for the ECCS containment pressure calculation for Davis-Besse, Unit 1. Pursuant to Appendix K, 10 CFR 50, justification must be provided for passive heat sinks and other significant containment parameters.

We request justification be provided by comparing the input parameters used in BAW-10105 with the appropriate values for the Davis-Besse Nuclear Power Station, Unit 1. Additional information required for justifying these parameters is provided in the enclosure to this letter.

The Licensing Project Manager, L. Engle, has already informed Mr. E. Novak, General Superintendent-Power Engineering and Construction, by telephone conversation on July 25, 1975, as to the contents of the additional information requested.

In order to maintain our licensing schedule, we will need your responses by September 1, 1975. If you cannot meet the response date, please inform us within seven days after receipt of this letter so that we may revise our scheduling.

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*J.H.*

OFFICE →	x7886/LWR2-3	C-FWR2-3:RL			
SURNAME →	LEngle:tm	ASchwencer			
DATE →	8/7/75	8/1/75			

The Toledo Edison Co.

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Please contact us if you have any questions regarding the enclosure provided.

Sincerely,

Original Signed by

A. Schwencer, Chief  
Light Water Reactors Branch 2-3  
Division of Reactor Licensing

Enclosure:  
Request for Additional  
Information

ccs: Donald H. Hauser, Esquire  
The Cleveland Electric Illuminating Co.  
P. O. Box 5000, Room 610  
Cleveland, Ohio 44101

Gerald Charnoff, Esquire  
Shaw, Pittman, Potts, Trowbridge  
and Madden  
910 - 17th Street, N. W.  
Washington, D. C. 20006

Leslie Henry, Esquire  
Fuller, Seney, Henry & Hodge  
300 Madison Avenue  
Toledo, Ohio 43604

bccs: J. R. Buchanan, ORNL  
T. B. Abernathy, DTIE

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DATE →						

REQUEST FOR ADDITIONAL INFORMATION  
DAVIS-BESSE, UNIT 1  
DOCKET NO. 50-346

The ECCS analysis for your plant is referenced to BAW-10105. Provide justification for the following input parameters used in BAW-10105 by comparison with the appropriate values for your plant:

1. Net Free Containment Volume - Justification should include the total gross internal containment volume and the internal structures and equipment and their volumes which are subtracted to obtain the net free containment volume. A discussion of the uncertainties should be provided.
2. Passive Heat Sinks - Provide the actual passive heat sink structures for your plant. Discuss the method of determining the passive containment heat sinks. Identify each heat sink by category (i.e., cable tray, equipment supports, floor grating, crane wall, etc.) and provide surface area, thickness, materials of construction, thermal conductivity and volumetric heat capacity, by component category used in the containment transient analysis code.
3. Starting Time of Containment Cooling System(s) - Discuss the factors that show that the start time(s) assumed in the containment response analysis represent the earliest possible initiation of system(s) operation.
4. Containment Initial Conditions - Compare the initial values of temperature, pressure and relative humidity in the containment with the range of values that will be permitted during plant operation.

5. Containment Spray Water Temperature - Show that the value of containment spray water temperature used in the containment response analysis is the lower bound temperature consistent with plant operating conditions and that the spray flow rate used is suitably conservative.
6. Fan-Cooler Heat Removal Rate - Compare the maximum fan-cooler heat removal rate for Davis-Besse 1 with that assumed in BAW-10105. Show that minimum operational values of service water temperature have been used.
7. If any of the above parameters are less conservative for your plant than used in the generic evaluation of BAW-10105, provide the sensitivity of these parameters to the overall containment pressure response. This evaluation should demonstrate the overall conservatism of your containment parameters to those used in BAW-10105.