

Item B-4: ECCS Reliability

DESCRIPTION

Numerical reliability goals and methods of analysis have not been established by the NRC. The current basis for plant licensing continues to be NRC regulations which require, among other things, that the consequences of a LOCA be suitably mitigated despite the postulated subsequent occurrence of a series of independent malfunctions, including the loss of offsite power and postulated single failures in mitigating safety features. As the state of the art on probabilistic evaluation techniques becomes more widely accepted, increasing concern has been expressed regarding the adequacy of the current licensing basis. This NUREG-0471¹ item will address these concerns by assessing the reliability of current U.S. and foreign emergency core cooling system designs.

CONCLUSION

This item is covered² under TMI Action Plan Item II.E.3.2, "System Reliability," in Section 3 of this report.

¹ NUREG-0471, "Generic Task Problem Descriptions (Categories B, C, and D)," U.S. Nuclear Regulatory Commission, June 1978.

² Memorandum for T. Speis from J. Funches, "Prioritization of Generic Issues—Environmental and Licensing Improvements," February 24, 1983. [8303090540]

