



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Attachment 4.

58

MAR 3 1978

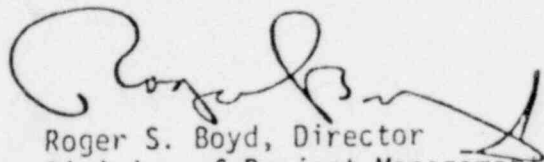
MEMORANDUM FOR: Edson G. Case, Chairman
Technical Activities Steering Committee

FROM: Roger S. Boyd, Director
Division of Project Management

SUBJECT: PROPOSED TECHNICAL ACTIVITY

Enclosed for consideration by the TASC is an additional proposed Category B technical activity.

This proposal results from a lingering concern of the ACRS, most recently expressed in a letter from the Committee dated January 18, 1978. The Committee is concerned that in the event of a loss of off-site power at some time subsequent to a LOCA, the core could be deprived of cooling for that period of time required to transfer the pumps from the off-site power to the diesel generators.


Roger S. Boyd, Director
Division of Project Management

Enclosure:
As stated

- cc: H. Denton
- R. Mattson
- V. Stello
- M. Aycock
- W. Minners
- D. Wigginton
- L. Crocker

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TECHNICAL ACTIVITY

Short Title: Loss of Off-Site Power Subsequent to LOCA

Description: This is an ACRS concern. It pertains to the effects on the core that could result from a loss of off-site power subsequent to a LOCA. Even though SIS reset controls are such that a loss of off-site power following a LOCA would result in diesel engine generator start and pick-up of ESF loads, there still remains the question as to the effect on the core during the period of time between the loss of the off-site power and the pick-up of ECCS pump loads by the diesels. If the loss of off-site power were to occur at the end of blowdown, just as the ECCS pumps are supposed to start, the core could be left without cooling water for an additional period of time beyond that examined in our analyses. What is needed is an analysis that shows that we need not consider such an event because it is of sufficiently low probability or it does not lead to unacceptable consequences, or we need to come up with some sort of design fix to assure that such an event cannot take place.

Priority: Category B.

Justification: This is an extension of the concern described in Issue No. 4 of NUREG-0138. The ACRS letter of December 12, 1976, which addressed the issues discussed in NUREG-0138, indicated general satisfaction with the staff position regarding control of SIS reset, except for this question. In the view of the ACRS, the loss of off-site power following a LOCA would require some time for the pump loads to be transferred to the diesel generators, and this loss of pumps had not been examined by the staff. A copy of the ACRS comments is enclosed.

Lead Division: DSS.

Manpower Requirement: Estimated 3 man months.

Technical Assistance Funds or RES Support: None.