



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

MEMORANDUM FOR: Dennis Crutchfield,  
Waterford Team Leader  
Division of Licensing

FROM: Richard H. Vollmer, Director  
Division of Engineering

SUBJECT: WATERFORD 3 BASEMAT EVALUATION

On April 27, 1983, a report entitled, "Safety Evaluation of the Structural Adequacy of the Waterford 3 Basemat" was sent by George Lear to you. As stated in your May 8, 1984 memorandum-to-file, the April 27, 1983 report "may be revised". Accordingly, upon the receipt of additional information from the NRC consultants (BNL and R. Philleo) and after discussions with the various members of your review team, a revision of the earlier report was prepared and is enclosed.

Included in the report are affidavits prepared by the staff's geotechnical engineer reviewer, Dr. John Chen and the structural engineer reviewer, Dr. John Ma. Also, enclosed either as a part of the document or referenced therein are the reports by staff consultants, BNL and R. Philleo, as well as the Chemical Engineering Branch.

Briefly, the conclusions common to the reviewers and consultants are:  
1) the basemat can perform its intended function; 2) a surveillance (monitoring) program will be needed to assure its continued adequacy; and 3) additional response from the applicant for confirmation of certain issues and the preparation of acceptable technical specifications for the surveillance program are needed. Should a hearing be required or should the applicant be unable or unwilling to do certain confirmatory studies, then additional funding for further participation by BNL may be needed. We are ready to meet with the applicant to initiate resolution of confirmatory issues and to develop the technical specifications.

Richard H. Vollmer, Director  
Division of Engineering

Enclosure: As stated

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