



DEPARTMENT OF THE ARMY  
WATERWAYS EXPERIMENT STATION, CORPS OF ENGINEERS  
O BOX 631  
VICKSBURG, MISSISSIPPI 39180

REPLY TO  
ATTENTION OF

April 15, 1983

WESGR

Mr. George E. Lear  
Hydraulic and Geotechnical Engineering Branch  
Division of Engineering  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Lear:

Reference Interagency Agreement No. NRC-03-82-102 under which the Waterways Experiment Station is providing support to the Nuclear Regulatory Commission staff in evaluating the soil and rock slopes associated with the Limerick Generating Station plant site.

We have visited the Limerick Generating Station site and have reviewed information presented in the Limerick Generating Station, Units 1 and 2, Final Safety Analysis Report, through Revision 18, and other documents and data necessary for evaluating the stability of the station slopes. Based upon the results of our analyses we find the following:

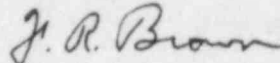
- a. There are no off-site slopes at the site which affect the safety of any seismic Category I plant facilities.
- b. The side slopes of the spray pond represent the only seismic Category I slopes at the site.
- c. Our analysis of the as-constructed soil and rock slopes at the spray pond site indicate that there is an adequate margin of safety against slope failure under both static and a postulated dynamic (pseudo-static) safe shutdown earthquake loading condition. Our analysis further suggests that any hypothetical slope failure would not result in a significant loss of cooling water or pose a significant threat to the seismic Category I spray pond system.

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Details of our analysis procedures and of our specific findings are being submitted under separate cover. If we can be of further assistance, please contact Mr. W. C. Miller, FTS 542-3147.

Sincerely,



F. R. Brown  
Engineer  
Technical Director

Copies Furnished:

Dr. Lyman Heller, NRC  
Dr. J. R. Pearring, NRC