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March 27, 1987

NRC/TMI 87-027

Docket No. 50-320

Mr. F. R. Standerfer  
 Vice President/Director, TMI-2  
 GPU Nuclear Corporation  
 P. O. Box 480  
 Middletown, PA 17057

Dear Mr. Standerfer:

Subject: Criticality Safety Evaluation for Coagulants

- References: (a) GPU letter 4410-67-L-0021, F. R. Standerfer to W. D. Travers, Criticality Safety Evaluation for Coagulants, dated February 20, 1987
- (b) NRC letter NRC/TMI 86-119, W. D. Travers to F. R. Standerfer, Addition of Coagulants to the Reactor Coolant System, dated December 22, 1986
- (c) NRC letter NRC/TMI 87-02, W. D. Travers to F. R. Standerfer, Use of Coagulants, dated January 5, 1987

Reference (a) submitted your evaluation of the criticality safety of two chemical coagulants and a filter aid material on the defueling filter canisters. The coagulants, designated as vendor product 1182 and vendor product 1192, are used in the defueling water cleanup system (DWCS) along with diatomaceous earth as a filter aid. These materials are used to enhance the performance of the DWCS filters in maintaining water clarity. We previously approved the use of the coagulants and filter aid in DWCS but specified that filters containing the materials could not be dewatered until completion of a criticality analysis. Our approvals are contained in references (b) and (c).

We have completed our review of your analysis in reference (a) and have performed independent calculations that confirm your conclusions that the two chemical coagulants and diatomaceous earth have no adverse effects on criticality safety.

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We therefore approve the use of the proposed materials and the release of the defueling canisters containing them for dewatering and shipping subject to the applicable constraints of the approved fuel shipping program.

Sincerely,

William D. Travers, Director  
TMI-2 Cleanup Project Directorate

cc: T. F. Demmitt  
R. E. Rogan  
S. Levin  
J. E. Frew  
J. J. Byrne  
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