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Docket No. 50-320

Mr. B. S. Allen
3121 Walnut Avenue
North Hills, Pennsylvania 19038

Dear Mr. Allen:

I am writing in response to your letter of April 3, 1981. My response was delayed somewhat while we obtained the GPU criticality study you requested. This document is enclosed for your information. A copy of NUREG-0557, Evaluation of Long Term Post Accident Core Cooling of Three Mile Island Unit 2, is also enclosed. Section 6.8 of this report discusses the minimum allowable boron concentration in the TMI-2 reactor coolant.

The NRC staff provides concentration estimates of the principal constituents in the reactor coolant system water in NUREG-0683, Final Programmatic Environmental Impact Statement Related to Decontamination and Disposal of Radioactive Wastes Resulting from March 28, 1979 Accident, Three Mile Island Nuclear Station, Unit 2, March 1981. A copy of NUREG-0683 is enclosed for your information.

A complete analysis of the TMI-2 reactor core will not be possible until the fuel has been removed from the reactor vessel. Several studies which estimate the extent of core damage are discussed in Section 6.4 of NUREG-0683.

I am pleased to provide you with this information.

Sincerely,

Bernard J. Snyder, Program Director
TMI Program Office
Office of Nuclear Reactor Regulation

Enclosures:

- 1. NUREG-0557
- 2. GPU Criticality Study, August 1979
- 3. NUREG-0683



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