



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

February 1, 1980  
NRC/TMI-80-026

Docket Nos. 50-289  
50-320

Mr. R. C. Arnold  
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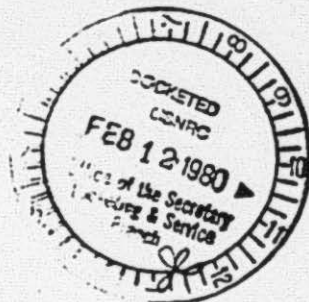
Dear Mr. Arnold:

Subject: Design Criteria for Processed Water Storage Tanks

In response to your request (letter TLL 029, R. Wilson to J. Collins, January 24, 1980) concerning acceptable design criteria for the processed water storage tanks, we have evaluated the consequences of a postulated failure of a storage tank in accordance with Standard Review Plan 15.7.3. Assuming that tritium is the most limiting radionuclide and that its concentration is 1.0 uCi/cc, we find that the failure of an outdoor storage tank does not result in tritium concentrations in excess of the limit in 10 CFR Part 20, Table II, Column 2, at the nearest potable water supply (Brunner Island). Therefore, we conclude that protective dikes around the storage tanks are not required. However, we will require that you establish administrative controls for concentrations of tritium and cesium and strontium radionuclides that can be stored in the outdoor tanks. Acceptable concentration limits for tritium and cesium and strontium radionuclides are 1.0 uCi/cc and  $1 \times 10^{-4}$  uCi/cc, respectively. If you have any questions, please contact us.

*John T. Collins*  
John T. Collins  
Deputy Director  
NRC/TMI Technical Support Staff

cc: See Distribution List



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