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**MEMORANDUM FOR:** Harold Denton, Director  
Office of Nuclear Reactor Regulation

**FROM:** John Collins, Deputy Director  
TRI Support

**SUBJECT:** ESTIMATED DOSES FROM DISCHARGE OF FRESHWATER  
WATER FROM EPICOR-II

In response to your request I had RAB calculate the estimated dose via the drinking water pathway if the first 13,000 gallons of water processed from EPICOR-II were to be discharged to the river. The effluent release valves cause a dilution in the discharge pipe of approximately  $4 \times 10^6$  which is the annual dilution flow from TRI. However, it did not take credit for any further dilution in the river. The attached Table I shows the calculated doses for total body and critical organ. These calculated values can be compared to the Appendix I values of 3 M rem/yr for total body, and 10 M rem/yr for the critical organ.

In addition, you asked if it would be possible to reprocess the water through EPICOR-II to achieve any further clean up. As you can see from Table 2, the effluent concentrations for all nuclides identified were below the LLD (lower limit of detection) for the particular analysis. Running the water through the second time would not show anything except that the concentrations are still below the LLD. On this basis I see no justification to request the licensee to reprocess the water. Should future batches of water show values above the LLD's, then at that time we will consider requesting the licensee to perform this action.

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John T. Collins, Deputy Director  
TRI Support

cc: R. Vellmer

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