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To: R. Vollmer / M. Bell NRR, TMI site  
From: L. Barnett NRR E/W  
Subject: RHR Leak Rates For Appendix I  
† Part 20 Criteria.

Per M. Bell's request of 11:00 4/8/79  
the following is provided:

10CFR Part 20 : 13 GPD RHR Leakage

Appendix I : 0.18 GPD " "

This is based on the TMI Effluent  
Technical Specifications, Primary Coolant  
Activity of 5,000  $\mu\text{Ci/gm}$  ( $\sim 4/9$ ), Iodine  
Partition Factor of  $10^3$ , and Charcoal Filter  
DF of 10. Real doses for the above leakage  
would be less because the tech. specs.

are conservative. Radioiodine releases from RHR leakage could be substantially reduced by the installation of portable charcoal kidney type filter systems in the RHR component rooms prior to initiation. Such units are available and could be installed in the order of a few days. They would reduce releases by an order of magnitude.

Lake Barrett

13:00 4/8/79