

Comments for Review of NuMI RAW system  
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From  
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1. Overall Remarks

This system appears to be in very good shape. The remaining areas are the target RAW system and if there will need to be a RAW system for the baffle(s). Presently no RAW system is envisioned for the baffles.

2. Itemized suggestions, questions and concerns

One suggestion, which Kamran is in the process of doing already, is to update, clarify and document the RAW water calculations. This includes dose rates from DI bottles and the tank. The Be will plate out mainly in the filters and DI bottles and this needs to be reflected in the estimation of dose rates. Exactly what the NuMI inputs (and non –NuMI inputs) to the calculation were for each case need to be clear in case NuMI makes changes. Inclusion of the H gas production estimates in this document would be best.

Along the same lines, the project needs to look at the resultant rates versus time and finalize the amount of shielding needed for the various systems. This should be based on the frequency, time in the location and number of personnel in the vicinity of different parts of the RAW system. In most cases a 1-hour (or even more) cooldown time is probably realistic. The access information from the project needs to be appended to the RAW water document of Kamran's, clarifying our best guess of what shielding is needed and why.