

## Memo

*Date:* April 22, 2015  
*To:* D. Passarello, C. Schaefer (IRR Team leader)  
*From:* D. Beavis  (C-AD, RSC Chair)  
*Subject:* IRR shielding Findings

I have told you that IRR finding 7.3.1 is closed. This is not entirely correct. The supplemental shield near the existing block will be replaced by moving an existing chipmunk to replace the shielding function for beam faults. The functionality will be verified by fault studies. I therefore consider that portion of the item closed and was the basis of my closing the action item.

However, after examining the IRR report they mistakenly included the additional shielding that will be placed around the beam dump in the future. The Project some time ago requested that the experiment start with the presently installed dump shield so that the dump shielding could be empirical optimized to allow for as much access room as possible. The original design by me was quite conservative. As RSC Chair I agreed with this request. The additional shielding is not required for early commissioning efforts for the gun to dump or the loop. The issue that the additional shielding addresses is that the radiation from the beam dump will start to dominate some chipmunks and the machine loss monitors as the intensity rises. It therefore is an operational issue.

I suggest that a post-start item 7.4.1 be created that C-AD RSC review the final dump shielding. Naturally, it is standard practice that the RSC or a subgroup review the empirical radiation measurements and operating conditions at a new facility.

CC:  
D. Kayran  
I. Ben-Zvi  
RSC