

Friday 1 March 1996

K. Reece

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Minutes of Meeting: Radiation Safety Committee sub-committee

Date: Wednesday 28 February 1996

Present: R. Brown, W. Christie, D. Dayton, W. McGahern, K. Reece, A. Stevens.

Subject(s): RHIC 6 o'clock shielding.

This meeting focussed on the shielding to be added over the two labyrinths on either side of the 6 o'clock "stacked block" shield wall. From calculations done by A. Stevens for shallow angle trajectories possible at these labyrinths, ~ 1 ft. of concrete would be sufficient to attenuate the prompt radiation at the outside gate, (design basis fault of x4 original design intensity). However, the labyrinth roof area is too large for just concrete and therefore the proposal was to use pour a 1 ft. thick re-enforced concrete slab into a 4" steel form. The steel would be the top shield with the concrete on the bottom. This roof shield would be constructed in three separate sections and fit onto the labyrinth with the seams perpendicular to the RHIC beamline. These "cracks" will be minimized during installation. Also, along the outer edge of each labyrinth, any "small" opening will have additional shielding placed such that there is no direct path into the labyrinth.

W. Christie is the liaison physicist for the 6 o'clock region and will provide the RSC with documentation of the shielding reviews that have had RSC participation.

cc: RSC

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