

LBNE Target Pile Shielding Meeting

12/30/09

Attendees: S. Childress, D. Hurd, P. Hurh, J. Hylan, R. Schultz, K. Viziri

- NuMI shielding is:
 - Bottom and sides to protect ground water:
 - 1m of concrete
 - 2 Blue Blocks (2 x 26")
 - For residual rates above:
 - The T blocks are 82" over Horn1 and baffle
 - The T blocks are 73" over Horn2.
 - R Blocks are 18" tall.
- Minimum shielding for LBNE should be:
 - Bottom and sides to protect ground water:
 - Either 1 additional meter of concrete over NuMI
OR
 - 1 more blue blocks over NuMI.
 - 1 meter of concrete seems easier AND cheaper.
 - This gives 2 meters of concrete and 2 Blue Blocks total.
 - For residual rates above:
 - Add 1' of steel and 6" of marble on the top over NuMI shielding.
 - But not necessarily adding any more concrete (18" R blocks).