

Minutes of the 20th BLM Threshold Working Group Meeting

September 8, 2015

Present: A. Alici, B. Auchmann, S. Jakobsen, M. Kalliokoski, A. Mereghetti, M. Rijssenbeek, D. Wollmann and M. Zerlauth

AFP and its XRP Locations in C6R1 (M. Rijssenbeek)

Presentation

AFP Roman Pots will be cylindrical shaped like the E6 Roman Pots of TOTEM. The stations will be installed in cell 6 at 205.2 m and 217.3 m from IP1. Slava has made a preliminary drawing of the potential BLM locations.

Discussion

Daniel asked if there had been any FLUKA simulations made of the losses.

Michael replied that there has not been any but they would be interested to have them.

Markus noted that from the drawing it is not clear if the BLMs can be installed into the locations since TCL6 is missing from them. This need to be clarified by the BLM team.

Tasks

Matti will follow-up and check if the installation locations are valid. An access during TS3 to check the locations might be required.

Analysis of BLM Thresholds for ALICE (A. Alici)

Presentation

Andrea presented the ALICE proposal of setting the BLM thresholds to protect ALICE detectors. Currently the protection is done by BCM. Two BLMs had been installed to +5.5 m and one to +15 m from IP2 by request of ALICE as an additional system. However no proper thresholds have been set to these monitors. The proposal would be to use beam modes, but since this is not possible, set two levels for the thresholds: low for top energy and high for others. The thresholds would be set for RS01, RS02 and RS04. RS03 would be interpolated between RS02 and RS04. All other RS would be set to RS04 level.

Discussion

Daniel asked about the limit with UFOs.

Andrea replied that the system should dump only with rapid losses with jump in luminosity. Longer losses will not cause problems and would be dumped anyways in other locations.

Changes to ALFA BLM Thresholds to Avoid UFO Dumps (M. Kalliokoski)

Presentation

Matti presented proposal for new thresholds for ALFA to avoid unnecessary UFO-related beam dumps. The changes have been proposed and approved already in MPP. LHC-BLM-ECR-0039 is available.

Next Meeting

Tuesday 22 September, 14:00.

Minutes by M. Kalliokoski (BE-BI)