Subject: Low Energy Operations of AtR and RHIC


The committee continued its review of the materials provided for low energy operations of RHIC. Kin Y. was assigned to check detailed numbers so the committee could focus on general methods and issues that may have been overlooked.

The memo on potential dose external to AtR was requested to be updated for 100% up-time rather than the 50% originally used. The memo will be updated to reflect the approval of the recommendations as check-off list items. Updating the memo was felt to be a good means have having as much material in one document. For low energy operations the PS house should have posting upgraded, a subgroup should consider how to handle Thompson Road, and access controls for entry into the tunnel should be changed till the potential residual activity is determined.

The posting of Thompson Road for full energy injection was discussed briefly. Previously the committee had approved the operation of Thompson Road as an uncontrolled area after the chipmunks were moved to more closely monitor the road. However, in the process of examining the existing locations it was determined that two of the chipmunks had not been in ideal locations and therefore some of the data to justify the change was not optimal. Data now exists for addition TLD monitors and all four chipmunks surveyed into place. These data will be reviewed and the issue of keeping the road open will be reviewed before the start of RHIC. (Ck-FY2010-RHIC-644)

The energy deposited in the RHIC beam dumps and collimators for low energy operations will be less than that for full energy operations approved in the RHIC SAD. However, the limits used in the RHIC SAD have never been approached for full energy operations. Some additional external monitoring should be conducted for the beam dumps and collimators. (Ck-Fy2010-RHIC-645)

The residual activity at the beam dumps and collimators may increase. Surveys during and after low energy operations should be conducted to ensure the area is properly posted.
The low energy beam will be transported to the same location of the beam dumps by reducing the beam deflection caused by the kicker system.

References

2) RSC Minutes of Feb. 3, 2009, “Proposed Modification to Thompson Road”.

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RSC
RSC Minutes file
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A. Drees