

Radiation

Safety

Minutes of RSC Subcommittee of September 30, 2009

Committee

Subject: Low Energy Operations of AtR and RHIC

Present: D. Beavis, R. Karol, W. Fischer, L. Ahrens, P. Sullivan, E.T. Lessard, P. Bergh, and V. Schoefer

The committee spent most of the time discussing the calculations on the soil activation¹ for low energy operations of the AtR. **The committee recommends that plans go forward in preparing for the low energy operations of multiple weeks but there is work to be done to ensure localized losses are monitored and kept sufficiently low.**

After the meeting it was decided by the Safety Section head and the committee chair that the changes suggested to reference one be updated in reference one so there would be one description. Reference 1 will include the check-off database items for the AtR as related to potential soil activation.

The committee clearly recommends having the loss limit be established by 5% of the ³H DWS and not ²²Na. The department will proceed to laboratory management on this issue.

The committee believes that the 5% beam loss is conservative.

The committee recommends 100% uptime used in the analysis instead of 50%.

Review of how losses are kept to the necessary limits through the use of loss monitors, chipmunks, and removable soil samples must occur.

Kin Yip was assigned to check the specific numbers in the report. The committee overall would be concerned with the approach and potentially over looked issues.

References

- 1) D. Beavis memorandum, "[Low Energy Operations of AtR—Potential Soil Activation](#)", Sept. 22, 2009.

CC: Present
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RSC Minutes file
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T. Satogata