K. Reece

Minutes of Meeting: Radiation Safety Committee

Date: Monday 19 May 1997

Present: L. Ahrens, D. Beavis, A. Carroll, I.H. Chiang, W. Glenn, D. Lazarus, E. Lessard, Y. Makdisi, A. McGeary, D. Phillips, K. Reece, A. Stevens, R. Thern.

Subject: Low intensity, primary proton beam into the B1 secondary area.

This meeting was a follow-up to the RSC Meeting held 14 May 1997 (attached) on this same topic. The open issues from the previous meeting, as well as other requirements, were resolved in this gathering. **The committee approved the operation of the B1 beamline in a low-intensity, primary proton configuration**.

E925/926 requested to run with primary proton beam into the B1 secondary beam area. In order to permit this mode of operation in an assured safe manner, several restrictions were placed on the AGS Facility. These were included as part of an RSC Check-Off List for this experiment (attached). A summary of the requirements follow;

1. E925/926 will operate at nominal HEP beam momentum, (24 GeV/c), **[CK-B1-925-01]**.
2. The B1 beamline must be the *only* experiment operating during this period, **[CK-B1-925-02]**.
3. Two NMC units must be used, one located upstream of B1D4 and the other downstream of B1P1, **[CK-B1-925-03]**.
4. The interlock limit for these dual NMCs must be $< 5 \times 10^6$ protons/spill, **[CK-B1-925-04]**.
5. The A, C and D Primary beamlines must be turned Safely Off, (NO low-intensity primary beam elsewhere), **[CK-B1-925-05]**.
6. A 2nd interlocking chipmunk must be located on the RHS of the beamstop, **[CK-B1-925-06]**.
7. The B5 Ledge chipmunk must be re-located, **[CK-B1-925-07]**.
8. Require a 3% current comparator of B1D1 vs. B1D4-6, **[CK-B1-925-08]**.
9. Open B1C2 fully and RSC LOTO, **[CK-B1-925-09]**.
10. Turn Off and RSC LOTO CQ5&8, **[CK-B1-925-10]**.
11. Turn Off and RSC LOTO CQ6&7, **[CK-B1-925-11]**.
12. Turn Off and RSC LOTO BQ9, **[CK-B1-925-12]**.

13. Turn Off and RSC LOTO BQ10, **[CK-B1-925-13]**.
14. Inform MCR of Administrative Limit of one Booster transfer/AGS cycle, **[CK-B1-925-14]**.
15. Attenuate the Linac beam intensity and RSC LOTO the device turned Off, **[CK-B1-925-15]**.
16. Exclude personnel from occupying the B5 Condo, B5 Condo Corridor and the B5 Experimental Area during this dedicated run, **[CK-B1-925-16]**.
17. Provide an updated Sweep Procedure to MCR, **[CK-B1-925-17]**.
18. Since the B1 experimental area will be an AGS Class II Area, the beamline must be as fully enclosed as possible, **[CK-B1-925-18]**.
19. A Health Physics technician (or EAG Watch) must be present (at E925) for the duration of this run, (as an alternative measure to "full enclosure" where not possible), **[CK-B1-925-19]**.
20. Where the B1 beamline cannot be fully enclosed, the "beam path" must be clearly delineated by Construction Tape or some other obvious marker(s), **[CK-B1-925-20]**.
21. Modify the AGS Security System for this area to permit this mode, **[CK-B1-925-21]**.
22. The B/B1 areas must be restored to their original configurations after this run is complete, (attached), **[CK-B1-925-22]**.
23. Adjust the BC1 Collimator to achieve ~ 2 x 10^8 protons/spill through the aperture, **[CK-B1-925-23]**.
24. The AGS beam intensity should be ~ 2 x 10^{11} protons/cycle, **[CK-B1-925-24]**.
25. A Fault Study Plan must be written, (beam hitting B1D8), **[CK-B1-925-25]**.
26. HP surveys must be taken around the B1 experimental area, (including behind the B1 beamstop), **[CK-B1-925-26]**.

Attachments:

1. RSC Meeting Minutes of 14 May 1997.
2. E925/926 B1 RSC Check-Off List.
3. Restoration of the B1 area RSC Check-Off List.

cc: RSC file