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Minutes of the AGS Radiation Safety Committee

Tuesday, November 20, 1990

Present: D. Beavis, H. Foelsche, J.W. Glenn, H. Kahnhauser,
E. Lessard, T. Ludlam, S. Musolino, W. Pemberton,
A. Stevens, P. Yamin

Subject: Preliminary Look at RHIC Radiation Safety Issues

The meeting commenced with a discussion of Committee Action Item 001. The initial response for the software support was that it was not available for one year. The Committee felt this was not acceptable and P. Yamin will have further communication with the Controls Group.

The Chair briefly discussed Action Item 002, which was to request a change in the BNL OHSG 3.4.0 to change 6 months interlock functional checks to once per running cycle. The Committee agrees this action should be pursued.

The security requirements for small beams need to be developed and sent to the S&EP Division for consideration/evaluation (memo E.T. Lessard and J.W. Glenn to D. Lowenstein). This will be brought up at a future meeting.

Radiation Safety Issues at RHIC

It was noted that this Committee's scope includes RHIC as indicated by the joint memo from D.I. Lowenstein and S. Ozaki (November 1, 1990) on committee assignments.

The discussion of radiological issues for RHIC was based primarily on Chapter V of the PSAR for RHIC (previously distributed-- Attachment 1) and a list of items presented by A. Stevens (Attachment 2).

Whether the transfer line will be in the RHIC SAR or have its own was discussed. It was the Committee's view that the discussion of the transfer line in the PSAR is inadequate. There are many straight forward issues with the transfer line including shielding, shield penetrations, and how to protect for full AGS heavy ion and proton intensities in the transfer line. The portion of the transfer line which is common with g-2 requirements will be in the AGS SAR which will be complete in the fall of 1991.

The dump design for RHIC will require substantial design work for both radiation protection, ALARA issues, and environmental limits.

Other items discussed were:

1. Generation of an Access Control Specification.
2. Clearly defined safety limits and operating values.
3. Procedures and training.
4. Experimental access control criteria.
5. The Limiting Aperture Collimators (LAC) and their location.
6. Survey information to clearly document the existing shield.

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Attachments (file copy only):

1. Chapter V of RHIC PSAR.
2. A. Stevens viewgraph.

Distribution: Radiation Safety Committee
RSC Info. List
Department Administration
Others Present at Meeting
AGS Main Control Room