Friday 19 May 1995
K. Reece
RKR.

Minutes of Meeting: Radiation Safety Committee, sub-committee.

Date: Thursday 18 May 1995

Present: H. Brown, G. Bunce, A. Carroll, I.H. Chiang, W. Glenn, P. Ingrassia, A. McGeary, R. Miltenberger, K. Reece.

Subject(s): SEB Switchyard access.

Access to the SEB Switchyard (SWYD) is defined in an OPM attachment (AGS-OPM-ATT 4.1.b, Attachment 8.1) called "Primary Beam Accessibility Matrix". From some discussion (ref: memorandum Glenn to Reece 4/12/95, RSC file), a review of this access matrix was proposed. Concerns regarding access to the SEB SWYD were;

1. Access to several primary beam areas is solely procedural; the Access Control System (ACS) does not automatically invoke the defined critical devices for adjacent areas.
2. Additional constraints may be required for access to specific areas.
3. In some cases, the access matrix may be too restrictive.

A1 Primary: Control access using the same critical devices for both proton and heavy ion AGS operation, [A-line safely off - (AD5-8 + AD4&9 OFF)].

B2 Primary: Control access using the same critical devices for both proton and heavy ion AGS operation, [B-line safely off - (BD5-8 OFF redundantly)].

LESBIII North and South: Will remain as defined in the matrix. The prompt radiation levels in the LESBIII primary area may be a concern due to a high intensity proton point loss in the vicinity of the B target. The sidewall shielding between these two primary beam caves is adequate for heavy ion operation. A beam fault study in the B-line (beam loss on BQ13) may provide a better understanding, (I.H.Chiang).

C3 Primary: Control access using the same critical devices for both proton and heavy ion AGS operation, [C and B lines safely off - (CD4 OFF and CC1 diffuser inserted AND BD5-8 OFF redundantly)].

The ACS should be automated for the following access requirements;

B primary: Booster F6 and DH2&3 OFF.

C and C3 primary: CD4 OFF and CC1 diffuser inserted AND add BD5-8 OFF for C/C3 access.

Another topic considered was the SEB beam switch (ref: RSC meeting minutes March 2 & 12, 1993). Since the SEB SWYD AD2&3 magnets were replaced last summer maintenance period, there is insufficient shielding around the AD2 magnet. Shielding should be added during this summer shutdown. The use of an SEB switch will then be considered by the RSC for access into the A and B primary areas with beam in the AGS. The access prohibition to the SWYD with beam in the AGS will remain, (Pendzick, H. Brown).

Finally, adjacent cave restrictions should be reviewed by an RSC sub-group and proposals made for modification, (Glenn, Ingrassia, Reece).

Action Items:
1. The Primary Beam Accessibility Matrix should be updated to reflect the approved changes, (Ingrassia).
2. The ACS should be modified to automate the approved changes, (McGeary).

Attachments: 1. AGS-OPM-ATT 4.1.b, Attachment 8.1
(RSC file only) 2. Memorandum Glenn to Reece 4/12/95.

cc: RSC file
A. Pendzick