Saturday 2 March 1996

K. Reece

Minutes of Meeting: Radiation Safety Committee

Date: Friday 1 March 1996

Present: L. Ahrens, D. Beavis, H. Brown, A. Etkin, W. Glenn, E. Lessard, W. MacKay, S. Musolino, K. Reece, C. Schaefer, A. Stevens, K. Woodle.

Subject(s): E905 in the C6 line - K. Woodle.

Kim Woodle reported that an experiment in the C6 beamline was last reviewed by the Radiation Safety committee in 1989 and that there were few modifications to either the beamline configuration or the beam requirements for this experiment (E905). Beam requirements for E905 are to use a separated K^- beam of ~ 600 MeV/c at two different intensities. High intensity mode would be $\leq 5 \times 10^7$ particles/spill and the C6 area would be controlled as a Class III area and swept by HP/EAG. A low intensity mode would request 10% of this intensity ($\leq 5 \times 10^6$ particles/spill). There is a current comparator on the power supplies for C6D1 and C6D2. Two NMC units are used in this beamline; one before C6D2 and one immediately after C6D2. The only aperture changes from previous operation will be possible changes in the collimator located in the C6Q5 magnet. Kim recalled previous fault study results for this area to yield levels of less than 20 mrem/hr. Results from these studies will be documented on the RSC Check-off list.

Additions to the C6 RSC Check-off list

_____ (LPC3) Document previous C6 area fault study results, (attach copy).

_____ (LPC3) Document prompt radiation downstream of C6D2 for the following cases;

- _____ (HP) Beam on C3 target w/C6D1 & C6D2 ON.
- _____ (HP) Beam on C3 target w/C6D1 & C6D2 OFF.
- _____ (HP) Beam OFF C3 target (C3P1 OFF) w/C6D1 & C6D2 ON.

_____ (HP) Document "normal running" survey around (and above) the C6 area.

_____ (RSC) Memo limiting C3 intensity to ≈ 2TP given to MCR.

cc: RSC file (w/attachments)
RSC (w/o attachments)

AGS DEPARTMENT MEMO

To: Ken Reece
Subject: Radiation safety for E905 in the C6 line
Date: February 28, 1996
From: K. Woodle

Experiment 905 will run in the C6 line starting at the beginning of the 1996 HEP run. The experiment uses the LESBII separated K beam and the Moby Dick Spectrometer.

The beam will be $< 5 \times 10^7$ particles/spill with an area > 10 cm^2. The beam intensity is monitored in two NMC paddles (Fig. 1 for locations). The access security system is unchanged from previously reviewed versions (See attached Radiation Safety Check-off List.)

There is a cryogenic system service area located about 15 feet above the liquid He target. Access to this platform is via a ladder from the C6 area. This platform should be unoccupied when the C6 beam is on and so must be swept of personnel before enabling beam.

E905 in C6 Area