

Monday 3 March 1997

K. Reece

*RICR.*

Minutes of Meeting: Radiation Safety Committee

Date: Wednesday 15 January 1997

Present: L. Ahrens, D. Beavis, M. Brennan, J. Durnan, S. Ellerd, A. Etkin, R. Frankel, G. Ganetis, W. Glenn, P. Ingrassia, S. Kwiajkowski, E. Lessard, W. MacKay, A. McGeary, S. Musolino, K. Reece, T. Robinson, J. Rose, A. Stevens, R. Thern.

Subject: RF in the RHIC first sextant test.

Operation of the RF system located in the first sextant of the RHIC ring (near Bldg. 1005) could lead to radiation levels of ~ 200 Rem/hr at 1 ft., (AGS Class II area). Control of this hazard is necessary in two modes. The first is for periods when the beam is operating in the area and the second is a "stand-alone" mode. For purposes of this review, discussion was limited to the first mode (with beam operation).

The key used for accessing this area is the CA4 key. It has two possible locations for it to be "captive" and provide an enable; either in MCR (= beam operation) or in the RHIC RF building (= stand-alone mode). For the period covering the RHIC sextant test (and until an alternate proposal is presented to the RSC for review), this key will only reside in MCR AND the key cylinder in the RHIC RF building will be LOTO and/or disabled from operating. Only AGS personnel (MCR operators or EAG Watch) can sweep and secure this area.

Design of the interlocks for the RF system were also reviewed (attachment). The committee found these interlocks to be well designed and provide a redundant means of assuring the RF hazard has been turned off. In each of the two "RF critical devices", there are two ways (both active) of turning the equipment off. The interlock relays are located in locked security cabinets, (under control of the RHIC Security Group).

The PASS test procedures for the RHIC sextant must be completed for this radiation hazard to ensure that no personnel can enter the area with the RF powered, (e.g. critical device functional test).

Before stand-alone operation begins routinely, the RF levels at the access locations should be re-confirmed.

cc: RSC file