

C-AD

Issued: September 24, 2008

DB

Radiation

Safety Minutes of RSC Subcommittee Meeting of September 19, 2008

Committee

Subject: Change of Postings at Gates

Present: D. Beavis, R. Karol, P. Sampson, and P. Bergh

The subcommittee reviewed some posting at the Linac gates and the ATR.

P. Bergh provided a list of gates and posting to review (see attachment1).

There was a desire to remove redundant posting unless there was a good reason to have it. There may be situations where redundant posting can prevent areas from being improperly posted because of multiple sources associated with an area within an area and therefore may be desirable. This was not the case in any of the locations considered.

The High Radiation Area posting from the BLIP gate, the tank 9 gate, and the Linac HEBT gate would be removed.

Several of these gates have instruction to call MCR prior to entry to avoid dropping the sweep. The instruction of who to call will be updated appropriately.

The issue of the testing the interlocks for RF operation verses testing for beam operations was discussed. We will ask the LP for the Linac how the testing is coordinated with checkout. The testing procedure for the linac may need a subsection for the RF. We also want to know if there are any special access modes (hardware or procedural) for being in the tank 1 to tank 9 region with the RF on. **(CK-linac-fy2009-538)**

The AGS HEBT gate has a posting stating that pulsed radiation up to 320 mrem/hr may be present with linac operating. Historically this posting is related to protons being delivered to the HEBT beam stops and the AGS ring being accessed. In addition a chipmunk is placed in the area as a local monitor. Since these levels are typically not present, the posting and chipmunk were placed to prevent anyone getting inadvertent dose due to changing conditions in the linac. This was done to be ALARA. Since one of the beam stops has been moved upstream of the HEBT bend and any beam delivered to the downstream stop will have limited intensity via a new operations procedure for

HEBT we will review this at linac startup. The risk of inadvertent exposure may be mitigated by the movement of the beam stop and the new procedure (yet to be reviewed).
(CK-linac-fy2009-539)

The chipmunk in the pump house on the top of the linac is also coupled to limiting the exposure in the AGS. The old fault studies will be examined to see if this function is relevant for the AGS ring with the changes to the beam stops. **(CK-linac-fy2009-540)**

The informational posting on the ATR berm will be changed to Contact MCR when locked. The area is unlocked during shutdowns of an alternative is not necessary.

Attachments

1. [P. Bergh, List of posting to consider modifying, Sept. 19, 2008.](#)

CC:

Present
RSC
RSC Minutes file
RSC Linac File
Deepak Raparia