

PHYSICS DIVISION ESH BULLETIN 2008-1

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Access Requirements for HRIBF Controlled-Entry Areas

HRIBF Controlled-Entry Areas are areas where Tandem beams may be present. Controlled-Entry Areas are protected by the Tandem Radiation Safety System.

Access requirements for Controlled-Entry Areas when Tandem beam is present:

- Dosimeters are always required in Building 6000.
- Facility-specific training (Building 6000 Access Training) is required for unescorted access to Building 6000.
- Facility-specific training (HRIBF Radiological Safety) is required for unescorted access to HRIBF Controlled-Entry Areas when beam is present.
- Note that Rad Worker training is required if the Controlled-Entry Area is also posted as a Radiological Area.

How do I know if Tandem beam is present in a Controlled-Entry Area?

HRIBF Controlled-Entry Areas will have beam status signs posted at the entrance to the room to communicate when beam is present in the room. One of the following beam status signs will always be posted:

- Caution, room in use for accelerated-beam transport. Access Requirements Apply.
- Stop, this area is being operated in Total Secure mode. Opening this door will actuate radiation safety system interlock and stop beam.
- Blank (no message means no beam is in the room).

For the Tandem tower areas above the third floor, access is gained via a special key for the elevator or the gate from the third floor stairwell. The tower access key panel in the control room, the elevator, and the stairwell gate also have beam status signs to communicate when beam is present in the tower. The tower beam status signs shall indicate one of the following messages:

- Caution, tower areas above the third floor in use for accelerated-beam transport. Access Requirements Apply. Contact Operations Staff for Key Access.
- Stop. Tower areas above the third floor are being operated in Total Secure. Do not enter tower areas above the third floor.
- Blank (no message means no beam is in the tower).

A trained escort should provide a verbal hazard briefing when escorting visitors.

NOTES FOR ESCORTS

BUILDING 6000 ESCORTED ACCESS ORIENTATION:

Our procedures require that all individuals who visit the Holifield facility, even if continually escorted, must receive a brief orientation on facility hazards and the facility emergency plan as it relates to their visit. This orientation can be given verbally and requires no documentation. The following orientation should be given for escorted access (including tours):

Orientation: I am required to provide a brief safety orientation concerning the facility. There are two principal hazards in this facility: (1) radiation and (2) suffocation due to the release of sulfur hexafluoride gas which is used to insulate the 25MV Tandem accelerator. You can avoid these hazards by not entering posted Radiological Areas without an escort and by exiting the building if you hear a loud horn or see a flashing blue beacon. If an alarm sounds, I ask that you immediately follow my instructions for exiting the building.

Note: Pacemaker wearers are prohibited from accessing the HRIBF. Reference Physics Division ESH Bulletin 2004-11

CONTROLLED-ENTRY AREA ESCORTED ACCESS ORIENTATION:

Our procedures require that individuals who access HRIBF Controlled-Entry Areas when Tandem beam is present, even if continually escorted, must receive a brief orientation on hazards. This orientation can be given verbally and requires no documentation. The following orientation should be given for escorted access (including tours):

Orientation: Tandem accelerator beams and radiation monitors may be present in this area as indicated by the beam status sign on the door. Radiation monitors indicate little or no radiation at the present time, but if you have any concerns about possible exposure to radiation, you may remain outside the room. If radiation levels should increase, the radiation monitors will turn on flashing yellow beacons. If the yellow beacons flash, I ask that you follow my instructions for exiting the room immediately.