

**PHYSICS DIVISION
ESH BULLETIN 2004-08**

**ACCESS REQUIREMENTS FOR
CONTROLLED-ENTRY AREAS**

A Controlled-Entry Area is an area where Tandem beams may be present. Controlled-Entry areas are protected by the Tandem Radiation Safety System. There are access requirements for Controlled-Entry Areas when Tandem beam is present.

Controlled-Entry Areas have beam status signs which indicate when beam is in the room. When beam is in the room, one of the following signs will be posted:

- Caution, room in use for beam transport. Radiation may be present.
- Caution, room in use for active experiment. Radiation may be present.
- STOP, this area is being operated in total secure mode. Opening this door will actuate radiation safety system interlock and stop beam.

If no beam is in the room, no sign is posted.

There are training requirements for escorted and unescorted access to Controlled-Entry Areas. These training requirements are mandatory for everyone.

Escorted Access to Controlled-Entry Areas When Beam is Present

**Escort must have all training for unescorted access
Building 6000 Unescorted Access Training (module B1)
HRIBF Radiological Safety for Guests and Staff (module C1)
NOTE: the escort may provide verbal training for B1 and C1.**

Unescorted Access to Controlled-Entry Areas When Beam is Present

**Building 6000 Unescorted Access Training (module B1)
HRIBF Radiological Safety for Guests and Staff (module C1)
Radiological Worker I**

NOTES FOR ESCORTS

BUILDING 6000 ESCORTED ACCESS ORIENTATION:

Our procedures require that 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. However, this is a form of training and as such must be accompanied by a test, which can also be verbal. The following orientation and test 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.

Test: Do you understand what I have said and do you have any questions?

CONTROLLED-ENTRY AREA ESCORTED ACCESS ORIENTATION:

Our procedures require that individuals who access controlled-entry areas when beam is present, even if continually escorted, must receive a brief orientation on hazards. This orientation can be given verbally and requires no documentation. However, this is a form of training and as such must be accompanied by a test, which can also be verbal. The following orientation and test 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 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.

Tests: Do you understand that there is the potential for exposure to radiation if you enter this area and do you have any questions?