

## Memo

*date:* August 3, 2010  
*to:* RSC  
*from:* D. Beavis   
*subject:* Interlock Modifications for the Booster to AGS Labyrinth

The booster to AGS labyrinth will have two functions removed to the interlock logic.

The ability to go from the Booster to the AGS and return to the booster if both are on Controlled Access will be removed. This function has never been used. It was intended to be used during early commissioning of the Booster to AGS (BtA) beam line.

When the labyrinth was constructed the AGS still had direction injection from the HITL and the Linac. Both of these direct injection modes have been decommissioned. There is no need to reset the labyrinth from the AGS side. Therefore, this option will be removed. The labyrinth will only be reset from the Booster side.

Several potential impacts will need further review before any additional removal of interlocks can be considered. These include:

1. Back-out by the vacuum group of the BTA
2. Inspections of the facility by engineering staff
3. Fire response and response time for this area of the AGS ring.

These functions will be reviewed and if appropriate additional modifications to the interlocks can occur in the future.

CC:

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