

Prepared By: J. Alessi  
 Date: September 15, 2014  
 Reviewed by: Van Bears  
 Date: 9/15/14  
 Approved by: T. Roser  
 Date: 9/16/14

**EBIS Operations with Beams of He and Heavier**

**With completion of this EBIS RSC Check-Off the EBIS can continue to inject the Booster with ions He or heavier.**

1. \_\_\_\_\_(BLP)      Booster LOTO'd or Booster RSC complete
2. \_\_\_\_\_(IG)      3 local monitor only chipmunks have been placed at the direction of the LP.
3. \_\_\_\_\_(RCD)      Area around EBIS posted as controlled area-TLD required.
4. \_\_\_\_\_(ACG)      Functional tests of the interlocks have been completed and reviewed.
5. \_\_\_\_\_(LP)      RCD will be requested when new operating conditions exist in potential x-ray generators or beam species/intensity to verify there is radiation levels are acceptable.
6. \_\_\_\_\_(LP)      Ions lighter than He will not be used in the EBIS for acceleration.
7. \_\_\_\_\_(ACG)      Any active bypasses in the system have been reviewed with the RSC Chair.
8. \_\_\_\_\_(LP)      The items listed above have been completed.
9. \_\_\_\_\_(OC)      List completion verified by on-duty operations coordinator.

**When the list above is complete the check-off list will be placed in the RSC check-off list binder for FY2014.**

RCD:            Radiation Controlled Division (P. Bergh or designate)  
 BLP            Liaison Physicist for Booster  
 LP:            Liaison Physicist for EBIS (J. Alessi or designate)  
 OC:            Operations Coordinator  
 ACG           Access Control Group (J. Reich or designate)  
 RCT           Radiation Control Technician  
 IG             Instrumentation Group