

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

8.13.a C-A Radiation/High Radiation Storage Area

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C-A OPM Procedures in which this Attachment is used.		
8.13		

Hand Processed Changes

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Approved: \_\_\_\_\_ *Signature on File* \_\_\_\_\_  
 Collider-Accelerator Department Chairman Date

P. Cirnigliaro

### **8.13.a C-A RADIATION/HIGH RADIATION STORAGE AREA**

The C-A Department Radiation Storage Areas are located in Buildings 912, 922, 923, the Steel Yard, Block Yard and Lead Yard. The C-A Department High Radiation Storage Areas are located on the west side of the Target Building. This area is available to all groups within the C-A Department. Available outside of Building 912 is a fenced and locked high radiation storage area. In addition, the LINAC hot cell area is also a high radiation storage area.

Any material to be stored in a high radiation area must be in useable condition, or there should be plans to make it useable within a two-year period. Any piece of radioactive equipment, not to be used or repaired in a two-year period, should be properly disposed of. Refer to BNL Radiological Controls Manual.

Material being stored in the radiation storage areas are documented and maintained by C-A ESHQ Division.

The high radiation storage area shall not be used to store scrap.

Due to space limitations, the average radiation level on any piece of equipment to be stored in the high radiation storage area shall initially not be less than average of 30 mr/hr@ 12 inches. However, individual groups can store equipment with radiation levels less than average. At time of entry, Health Physics will survey the equipment being stored and identify the current radiation levels at twelve inches. If the equipment is determined to be contaminated (over 1000 DPM/Smear removable), the owner shall either have it decontaminated or sealed in plastic.

Periodically, Health Physics surveys the high radiation storage egress areas to ensure dose rates are acceptable, per ALARA guidelines, for employee work tasks within the area.

When a piece of equipment has been in storage for longer than two years, it should be reviewed for the following:

- If the average radiation level has dropped below 30mr/hr @ 12 inch, the equipment should be returned to the appropriate group for storage.
- Any damaged, obsolete, or unusable equipment shall be looked at, with a view towards its ultimate disposal by its owner.