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C-A OPERATIONS PROCEDURES MANUAL

8.24 Use of Beryllium

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Hand Processed Changes

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

P. Cirnigliaro

## 8.24 Use of Beryllium

### 1. Purpose

To outline the requirements to be followed when working at the Collider-Accelerator with beryllium or beryllium containing materials, for the control of risks to personnel and the environment. It is based upon the BNL [Beryllium Subject Area](#), which should be consulted for detailed information beyond the scope of this procedure.

### 2. Responsibilities

- 2.1 All personnel working with beryllium articles at C-A are responsible for ensuring that [a Beryllium Use Review Form \(BURF\)](#) is completed for their operations.
- 2.2 Liaison Engineers/Physicists are responsible for ensuring a BURF is completed for all beryllium use.

### 3. Prerequisites

- 3.1 All personnel working with beryllium are required to have current Hazard Communication training.
- 3.2 All personnel working with beryllium are required to read and acknowledge the BURF for their operation.

### 4. Precautions

- 4.1 Beryllium dust-producing activities are prohibited at BNL. This includes: machining, drilling, welding, sanding, grinding, or any other modification to the shape of the article. Beryllium must be handled properly to avoid personnel exposure. When undisturbed, beryllium articles do not present any significant risk to personnel. However, inhalation of dust or powder over time may cause chronic lung disease, and may be carcinogenic.
- 4.2 Beryllium is a hazardous material, and must be disposed of properly to avoid environmental impact.

### 5. Procedures

- 5.1 Each group should consult the BURF for their operations. These are found in the Attachments to this procedure.

### 6. Documentation

None

**7. References**

- 7.1 SBMS Subject Area – [Beryllium](#)
- 7.2 Title 10 Code of Federal Regulations (CFR) 850, “Chronic Beryllium Disease Prevention Program.”

**8. Attachments**

- 8.1 [C-A-OPM-ATT 8.24.a "BURF for Vacuum Group"](#).
- 8.2 [C-A-OPM-ATT 8.24.b "BURF for E949"](#).
- 8.3 [C-A-OPM-ATT 8.24.c, "BURF for LINAC"](#).
- 8.4 [C-A-OPM-ATT 8.24.d, "BURF for Beam Pipes"](#).
- 8.5 [C-A-OPM-ATT 8.24.e, "BURF AGS Helical Magnet \(Cold Snake\)"](#).