

*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 available by contacting the **ESSHQ Procedures Coordinator, Bldg. 911A***

C-A OPERATIONS PROCEDURES MANUAL

2.35 Snow Removal

Text Pages 2 through 5

Attachment

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

R. Karol

## 2.35 Snow Removal

### 1. Purpose and Scope

- 1.1 When a snowstorm is predicted, the established plowing plan must be reviewed by the C-AD Maintenance Coordinator and when operating, MCR. The plan must be reviewed to identify priority areas dictated by the run schedule expected through the storm period. Any updates to the plan must be communicated to the proper Plant Engineering (PE) contact(s), and to CAS Watch to assure that any changes are understood and will be implemented. During off hours, CAS and/or MCR should monitor plowing progress against the revised plan.

BNL Plant Engineering must first plow certain lab roads to allow passage for any life safety vehicles (e.g. fire trucks and ambulance), before plowing other roads. Beyond these routes, PE has an established plan for clearing the C-A Complex (see Table 1). Realizing this, MCR or CAS shall not contact PE with any non-emergency snow clearing requests.

### 2. Responsibilities

None

### 3. Prerequisites

Within C-AD, the staff needs to determine what constitutes an emergency and understand where a given emergency will appear on the snow removal priority list.

There are three types of emergencies:

- a) Life Safety Emergency – Obviously, these are situations when a person's life is at risk. These always have first priority. The snow crew will always work first to clear the roads to allow passage of the fire and rescue vehicles.
- b) Property Emergency – A second tier priority, these are declared when permanent or expensive damage/downtime will occur to the machine or one of its subsystems if immediate action isn't taken.
- c) Machine Downtime/Operations Emergency – The lowest priority, action must be taken to avoid or minimize machine downtime.

### 4. Precautions

None

## 5. Procedure

### **Caution:**

During inclement weather it is suggested that the machine be operated in a manner that would minimize the possibility of calling in system experts. An effort must be made to avoid requiring staff to travel onsite or be called in when a snow emergency has been declared. Of course, this must be balanced with all other rules required to maintain safe operations.

- 5.1 When a snowstorm occurs or is predicted, the Maintenance Coordinator shall review the C-AD Snow Removal Priority Buildings List (Table 1) to determine if other priorities exist based on the run schedule expected through the storm period.
  - 5.1.1 These changes/additions shall be communicated to Plant Engineering, MCR and CAS.
- 5.2 Requests for emergency snow removal consistent with Section 3 shall be made to the MCR during operations and with the Maintenance Coordinator and/or CAS during shutdown when MCR is not manned..
- 5.3 Priorities shall be made by the Maintenance Coordinator, Operations Coordinator, or CAS Watch, depending upon if the facility is operating or shutdown.
- 5.4 MCR, CAS, or the Maintenance Coordinator, depending upon plant status, shall inform Plant Engineering of any Life Safety or Property emergencies, as defined in Section 3, that require quick snow removal.
  - 5.4.1 MCR/CAS, or Maintenance Coordinator, shall impress upon Plant Engineering that the situation is Life Safety, or a Property Emergency and that quick action is required. Try to give a time when the job must be done.
  - 5.4.2 MCR/CAS, or Maintenance Coordinator, may ask the snow removal crews to have CAS accompany them so that the crews know exactly what areas need to be cleared and what areas snow should not be piled.
  - 5.4.3 MCR/CAS, or Maintenance Coordinator, will receive updates from PE on what areas have been cleared and report this information to the groups requesting the snow removal. Emergency requests for snow removal will be reviewed as they are received, the snow removal priority will be adjusted as needed. Any priority change requests will be communicated to PE.

**6. Documentation**

None

**7. References**

7.1 Memorandum from G. McIntyre to P. Ingrassia, Snow Removal Procedure for the C-AD, January 23, 2004

**8. Attachments**

8.1 Table 1 – C-AD Snow Removal Priority Buildings.

**Attachment 8.1**

**Table 1 – C-AD Snow Removal Priority Buildings** \*  
**In Order of Priority**

<b>Building</b>	<b>Group / Equipment</b>
940	Collider Accelerator Support Group
911	C-A Main Control Room (North by Westinghouse Pump Room)
923	Health Physics Office Entrance
911	Rear – AGS Emergency Entrance (Plug Door)
928/929	Siemens Control Room
930	LINAC
914	Booster
958	NSRL Experiment Building (when operating)
901	Tandem
1004A	Rf Service Building
1004B	Main Power Supply
1005R & H	RHIC Cryogenics Control
1006A	STAR Experiment
1008A	PHENIX Experiment

\*Occupied Priority Buildings have a blue snowflake by entrances.