

## **CDC Clean Room Procedure:**

**Location:** *The clean room is situated inside a laboratory in Wean Hall at Carnegie Mellon University (CMU). An entry vestibule (Wean 8409-left) separates the clean room from the corridor and a pass-through hatch links the clean room to the adjacent prep room (8409-right). The prep room is linked to the corridor by doors with dust strips on the non-hinged sides. The clean room wall material is transparent Perspex, permitting a good view of the clean room interior from the prep room.*

**Policies:** *The number of personnel authorized to enter the clean room is to be kept to a minimum. During construction, the number of people in the clean room at any given time should not normally exceed three.*

**Air supply:** *The air supply to the prep room is passed through a filter at its entry point. Prep room air is passed through a second filter and then through a near-HEPA filter into the fan supplying the clean room; the fan maintains a positive air pressure within the clean room relative to that in the adjoining areas.*

**Entry:** *Entries are kept to a minimum. The door is clearly marked and locked to avoid accidental ingress. The pass-through is normally kept closed, and its use minimized.*

### **Entry protocol:**

- Shoes are removed and placed in the corridor doorway alcove.
- The outside door to the vestibule is opened.
- The person enters the vestibule, stepping onto the sticky mat.
- The outside door is closed promptly.
- A jumpsuit and hat are taken from the cupboard and put on.
- Latex gloves are taken from the dispenser and put on.
- Personal Crocs are put on and then a bootie is placed over the shoes.
- The person passes through the plastic curtain into the clean room.

### **Exit protocol:**

- This is the reverse of the entry protocol.
- Whilst in the vestibule, the latex gloves and hat are discarded.
- The jumpsuit is discarded after several uses.

**Pass-Through:** The pass-through is used to pass material into and out of the clean room.

**Pass-through protocol:**

- The inside of the pass through is wiped down regularly.
- Material to go into the clean room is wiped down and placed in the pass through.
- The door to the prep room is closed.
- The door in the clean room is opened and the material taken into the clean room.
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**Straw protocol:**

*A special protocol is used when passing straw tubes through the pass through.*

- The fan speed blowing air into the clean room is turned up.
- Both doors to the pass through are opened.
- Oversized material is passed through.
- Doors are closed.
- Fan is turned back to normal.

**Maintenance:**

- The air filters (prep room and clean room) are changed every three months or more often if required (as determined by readings).
- The sticky mat is replaced each week, more often if necessary.
- The floor is wiped down each day.
- The floor is mopped and surfaces wiped down each week on Friday afternoon.

### **Air Quality Checks:**

- The air particulate content is measured at several set locations inside the clean room approximately daily. The readings are recorded in a (excel) database. Weekly averages are maintained. Information on recent weather or special circumstances are also logged in the spread sheet. A version of the log is available as GlueX-doc-1620.

### **Training Procedure**

- People requiring clean room access are trained immediately before entry. During their first clean room entry they are accompanied and supervised by project staff.