

## PORTAL MONITOR JOB AID

### About Portal Monitors

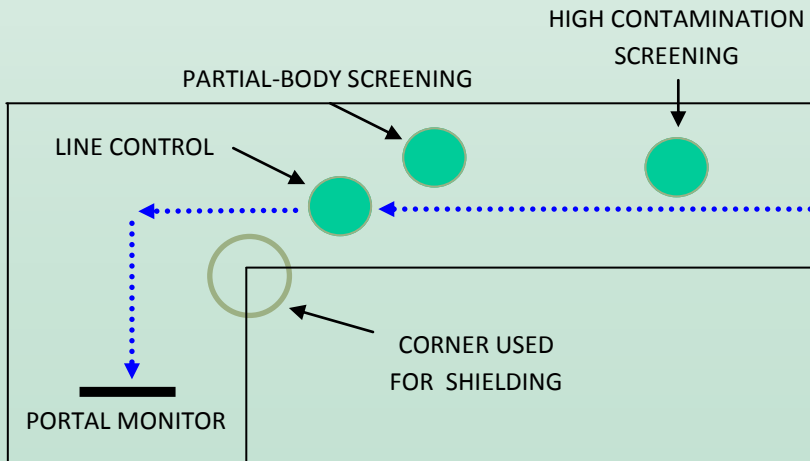
Portal monitors provide an efficient means of screening people for external contamination. These monitors can detect gamma and high-energy beta radiation, but not alpha radiation. Similar to metal detectors at airports, the portal monitor scans people as they walk through the device. An occupancy sensor (laser sensor) detects when a person is passing through the monitor. If the portal monitor detects radiation above the screening criteria, an alarm will sound and a red light will come on.

### Positioning the Portal Monitor

Because portal monitors are highly sensitive to gamma radiation, you need to be careful where you place them in the community reception center (CRC). If not positioned properly, a highly contaminated person further back in line could set off the alarm when someone else is walking through the detector.

To avoid false alarms

1. Provide additional layers of radiation detection before people get to the portal monitor (e.g. high contamination screenings, partial-body contamination screenings).
2. Position the portal monitor to take advantage of shielding within the CRC (e.g. corners, pillars, doors).



### Setting up the Portal Monitor

1. Review the manufacturer's instructions for assembly.
2. Assemble the unit where you intend to use it.
3. Check the cable connections and power source.
4. Turn on the portal monitor and allow it to perform its start-up check.
5. Conduct an operational check using a check source (e.g. button source).

### Operating the Portal Monitor

1. Signal line control to send a person toward the portal monitor.
2. Ask the person to walk directly to the center of the portal .
3. Have the person pause for 1-2 seconds after entering the portal monitor.
4. Ensure the occupancy sensor has detected the person.
5. If the alarm sounds or if the red light comes on, ask the person to turn around and step out of the portal monitor. A staff member escort the person to the Wash Station.
6. If the green light comes on, the person is not contaminated and can proceed to the Registration Station.
7. When the path is clear, signal line control to send the next person.



Image 1: Full-body contamination screening with a portal monitor