

Chemical, Biological, Radiological, Nuclear and Explosives Training: SRNL-102-PREV

Facility Search for Radiological Sources

Exercise Description

Following a scenario briefing specific to the teams and objectives, this exercise involves personnel conducting a pre event search/screening of a facility to detect, locate, and identify radiological sources. The goal is, with proper planning and survey techniques, to detect, locate, and identify all radiological sources that are present, and assess and communicate any potential radiological threat. A turn-back level is preset for the exercise to protect personnel and eliminate the need for personnel dosimetry. The exercise is located within a large facility consistent with the desired scenario with a variety of radiological sources available to be staged for the exercise to include exempt and accountable source quantities, as well as Naturally Occurring Radiological Material (NORM) source types.

Exercise Tasks and Topics

The following tasks and topics can be addressed or tailored to the customers' needs with training objectives:

- > Developing a search and survey plan considerate of designated areas based on total size of detection areas, detection equipment, available personnel, potential number of detection readings, identifications, communications, and interdiction elements, personnel safety, and the operating environment
- > Turn-back controls, if applicable, for high radiation rates at the provided exercise rate
- > Team/department protocols for radiation alarm response to include team communication of results using proper terminology for rates and units
- > Appropriate techniques to determine precise source locations
- > Use of radiological instrumentation knowledge skills to perform isotopic identification of the source(s)
- > Assessing any potential threat of the source(s)
- > Incident Command and chain-of-command controls according to team requirements

Other tasks and topics may be established as requested based on the team's protocols and procedures, and may include Reachback communications.



Radiological searches of venue



C Reactor facility

Completion

An evaluation report/assessment will be provided for each team's performance against the objectives.

Target Audience/Discipline

Secondary screeners such as law enforcement, EMS, fire services, HazMat, or other personnel that may provide support services during prevention and deterrence of radiological/nuclear detection and interdiction operations

Location

A selected facility at the Savannah River Site (SRS) and the Savannah River National Laboratory (SRNL) in Aiken, SC; Federal Law Enforcement Training Center (FLETC) in Charleston, SC; or a designated venue at the customer's location

Compliance

Supports ANSI/IEEE N42.37-2006, American National Standard for Training Requirements for Homeland Security Purposes Using Radiation Detection Instrumentation for Interdiction and Prevention. Also supports National Preparedness Goal Core Capabilities for Response/Health and Safety; Interdiction and Disruption; On-scene Security and Protection; Operational Coordination; Physical Protective Measures; and Screening, Search, and Detection focusing on the CBRNE capabilities as part of a Prevent and Response Mission

Enrollment Information

- Duration:** 1-2 days, dependent on team numbers and objectives
- Format:** Presentations, hands-on demonstrations, and evaluated exercises
- Prerequisites:** None
- Contact:** CBRNE_Training@srnl.doe.gov

For more information
on CBRNE training, contact:

Tony Hicks

Savannah River National Laboratory
Aiken, SC 29808
Phone: 803.725.8432
Email: CBRNE_Training@srnl.doe.gov

For more information
on SRNL, contact:

Lana Cox

Savannah River National Laboratory
Aiken, SC 29808
Phone: 803.725.4396
Email: lana.cox@srnl.doe.gov

