

# Global Security

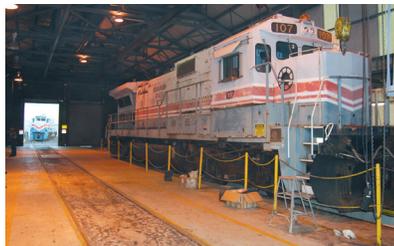
at the Savannah River National Laboratory

srnl.doe.gov

We put science to work.™



Maritime operations



Savannah River Site locomotive



Unmanned aerial radiation detection system

## Interested in finding out more?

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## Maritime, Rail and Unmanned Vehicle Testing

The Savannah River National Laboratory (SRNL) has extensive experience with training and testing programs using maritime, rail, and unmanned vehicle expertise.

### Maritime Capabilities

Experience in support of maritime activities includes:

- > Maritime Global Nuclear Detection Architecture Studies
- > Maritime Background Radiation Program
- > Non-Container Maritime Transport Pathways Study
- > Port-Specific Vulnerability Modeling
- > Offshore Secondary Inspection Architecture Study
- > Rad/Nuc Detection Asset Allocation
- > Urban Marina Architecture Study
- > Maritime Security Risk Analysis Model, Rad/Nuc Module Integration
- > Inland Waterways Architecture Study
- > Vessel Radiation Detector Testing



"Crawdad": a boat-mounted radiation detection system evaluation project at the SRS L Lake



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## Maritime, Rail and Unmanned Vehicle Testing *(continued)*

### Rail Capabilities

The Global Security group at SRNL has hosted tactical exercises and testing involving use of the SRS rail system. Rail use is routine, but limited, with materials movement between site operating areas. Operations are in both remote site areas and occupied areas. On-site rail testing can be conducted at various speeds, but normal operation speeds are 1-25 miles per hour.

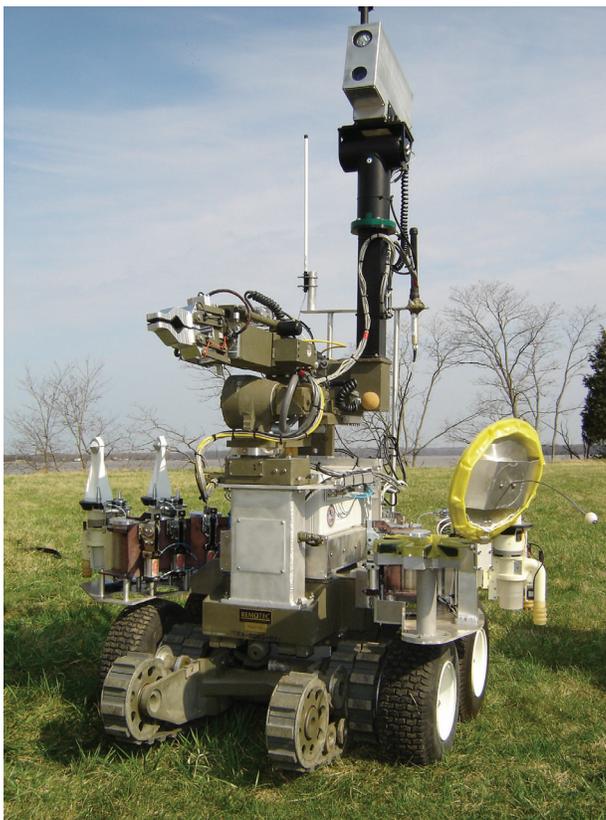
### Unmanned Vehicle Capabilities

SRNL has the capability and experience in developing, testing, field deploying and assisting in events involving unmanned vehicles for such situations as post blasts, hurricanes, fires, unstable restricted spaces and terrorist activities. SRNL architecture can allow for the integration of varied payloads, such as radiation detection equipment, cameras, listening devices and sampling equipment (air, liquid, solid and smear).

SRNL handles all special nuclear material (plutonium, uranium and neptunium) and has Category I and II facilities.



SRS railroad classification yard



National Technical Nuclear Forensics Ground Sampling Tele-operated Vehicle



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