

Drone Utilization at SRS

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SRNL Unmanned Aircraft System (UAS) Program Overview

Mission: Provide support to

- 1) Savannah River Site (SRS) and Site customers
- 2) Research and Development (R&D)
- 3) Emergency response

Pilots:

Currently have four FAA Part 107 certified pilots
More than 50 flight hours and more than 250 flights in 2024

Savannah River Site:

Class G National Airspace Designation
290' Above Mean Sea Level
Inside National Security Area special use airspace
FAA Special Security Instruction 14 CFR 99.7 for restricted drone ops



SRNL UAS Program Customers

- Customers:
- Onsite customers supported include Area Completion Projects (ACP), NNSA, SRNL (various R&D programs), Site Infrastructure, other facilities
 - Offsite customers include Defense Threat Reduction Agency (DTRA), Department of Homeland Security (DHS), U.S. Marine Corps, U.S. Air Force, U.S. Military Academy, U.S. Naval Academy



SRNL UAS Program Mission Examples

Support of R&D



Use of UASs for a gas sampling project



Use of UASs (rotary and fixed-wing) for extended flight time project

SRNL UAS Program Mission Examples (cont'd)

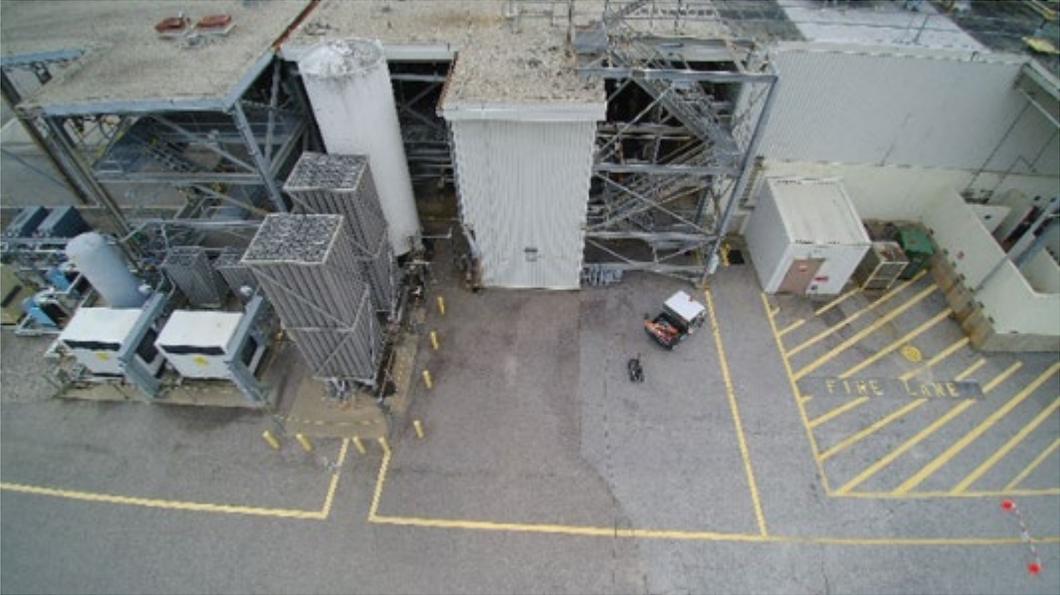
Support of EM cleanup activities



Use of UASs to document construction and cleanup progress of an ash basin remediation project

SRNL UAS Program Mission Examples (cont'd)

Support of Emergency Response Drills



Use of UASs to support onsite emergency response drills/exercises

SRNL UAS Program Mission Examples (cont'd)

Support of Environmental Applications



Use of UASs to apply herbicide to the rooftops of two entombed nuclear reactors

SRNL UAS Program Mission Examples (cont'd)

Support of Site Infrastructure

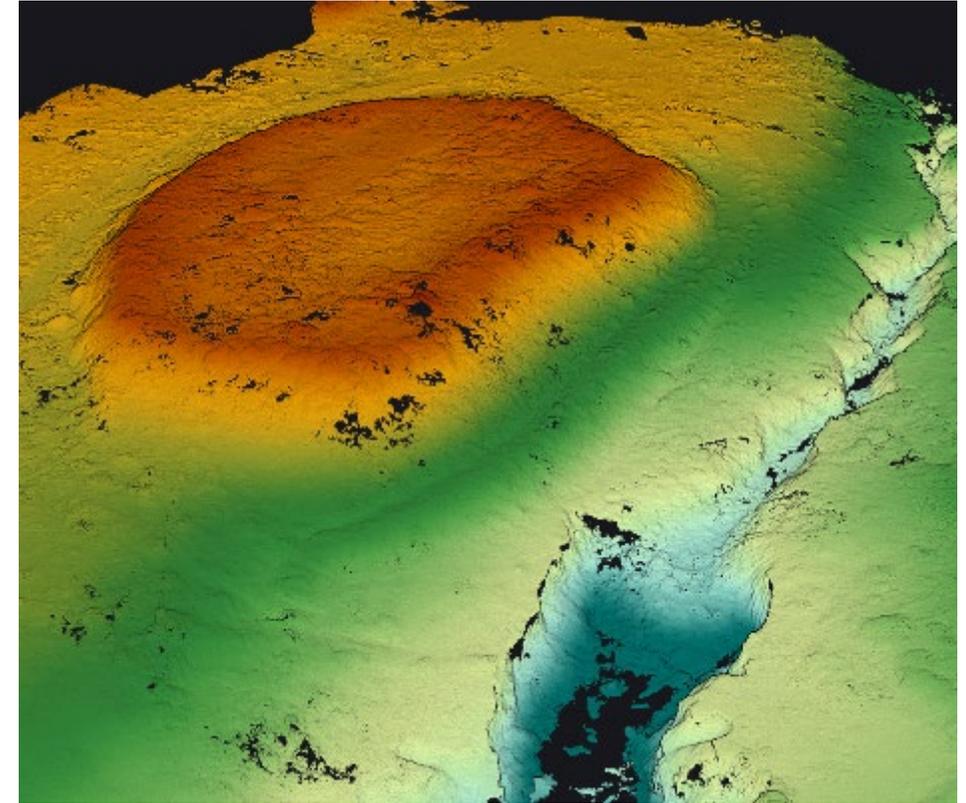
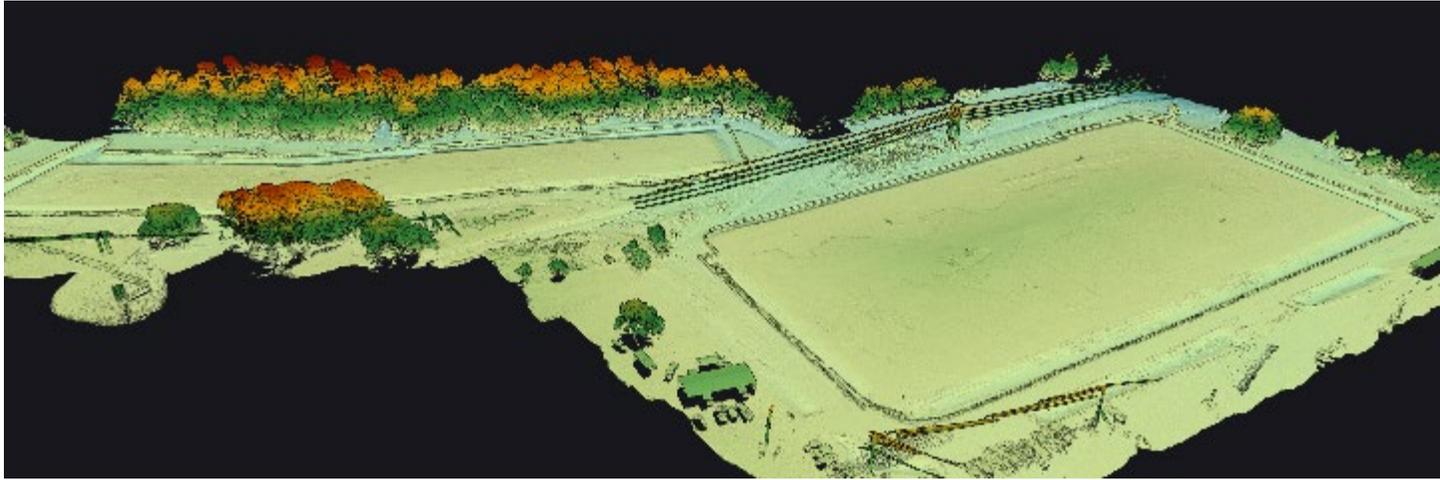


Use of UASs to perform rooftop and facility inspections at various SRS facilities



SRNL UAS Program Mission Examples (cont'd)

Light Detection and Ranging (LiDAR)



Thank you