



ADVANCED MICROREACTORS ARCTIC DEPLOYMENT WORKSHOP

Workshop Agenda

September 9–11, 2026 • Fairbanks, Alaska

Day 0 – Tuesday, September 8

1500 – 1730 | ~~Classified Pre-Workshop Session~~ **CANCELLED**

Day 1 – Wednesday, September 9

Framing the Challenge: Arctic Microreactor Deployment

0800 – 0830 | Registration and Networking

0830 – 0900 | Workshop Kick-off and Opening Remarks

0900 – 0930 | Keynote Address

Workshop Framing: Workshop Framing and Objectives

0930 – 1015 | Introduction of Tabletop Exercise (TTX) process and expected workshop outcomes

1015 – 1045 | Break & opportunity to engage Janus program industry partners

1045 – 1130 | Review of TTX scenarios

Ensure common understanding scenarios including assumptions, mission, site information, and planned microreactor technology. Discuss and document any additional key assumptions or information requested to be included for SME engagement with each scenario.

Scenarios (refer to Tabletop Exercise Handbook):

- Bush Camp – remote deployment in northern, austere environment
- Fort Brash – deployment to existing coastal installation

1130 – 1230 | Lunch & opportunity to engage Janus program industry partners



Tabletop Session I – Site Selection, Transportation and Logistics, Civil Works:

1230 – 1500

Participants work through the first phases of both deployment scenarios, examining:

- Site selection and characterization
- Transportation and logistics
- Seasonal access constraints
- Civil works and permafrost foundations
- Construction planning
- Workforce and equipment requirements

1500 – 1515 | Break

Tabletop Session II – Construction, Commissioning, and Infrastructure Integration

1515 – 1700

Continue the tabletop exercise through commissioning, including:

- Reactor emplacement
- Commissioning
- Fuel delivery
- Integration with installation infrastructure
- Microgrid and utility interfaces
- Initial operational readiness

1800 – 2000 | No-host social (Location TBC)

Day 2 – Thursday, September 10

0830 – 0900 | Recap of Day 1

Tabletop Session III – Operations and Sustainment

0900 – 1045

Continue the tabletop through sustained operations, including:

- Routine operations and maintenance
- Cold-weather operations and human factors
- Supply chains
- Fuel management and radiological safety

1045 – 1100 | Break



Tabletop Session IV — Resilience and Lifecycle Support

1100 – 1230

Continue the tabletop through long-term operation, decommissioning, and site restoration:

- Long-term sustainment and site security
- Installation cybersecurity
- Decommissioning
- Reverse transportation
- Site Restoration

Time will be included to review specific risk events not already addressed (e.g. geological and meteorological natural-hazard risks and emergency response) – these topics may also be included in earlier sessions through exercise injects.

1230 – 1330 | Lunch

Afternoon Field Activities

1330 – 1630

Tours of CRREL Permafrost Tunnel, Alyeska Pipeline Viewing Point, and industry partner exhibits.

Tunnel Tours will depart the visitor center in three assigned groups. Please arrive at the visitor center near 2010 Steese Hwy, Fox AK (~20 min from UAF by personal vehicle) at least 10 minutes prior to the start of your tour.

- Group 1 – 1400
- Group 2 – 1445
- Group 3 – 1530

The **Alyeska Pipeline Viewing Point** is located en route to the Permafrost Tunnel (near 1650 Steese Hwy, Fairbanks AK) and participants can stop on the way to or from the Tunnel Tour. Guides will be on site at the viewing point from 1400-1630.

Janus program partners will be located outside the workshop meeting room at UAF and available for participants to meet and discuss technology / approach through the afternoon.

1700 – 1900 | No-host social (Location TBC)

Day 3 – Friday, September 11

0830 – 0900 | Day 2 Recap

Discussion: Research Priorities and Future Test Infrastructure

0900 – 1030

Using findings from the tabletop exercise, identify:

- Highest-priority technical challenges
- Applied RDT&E needs & data gaps
- Opportunities for Arctic and cold-regions test infrastructure
- Demonstration and validation requirements

1030 – 1045 | Break

Discussion: Transition Pathways and Fast Followers

1045 – 1200

Discuss opportunities to accelerate deployment through:

- Interagency collaboration
- Pilot demonstrations
- Commercial and dual-use applications
- Industry engagement
- Future partnerships

1200 – 1300 | Lunch

1300 – 1330 | Workshop wrap-up

Fort Wainwright Site Visit

1330 – 1630

Guided visit to a candidate microreactor deployment location, including discussion of:

- Site selection considerations
- Installation energy infrastructure
- Permafrost and civil engineering constraints
- Operational integration with Army installation systems

