

January 31, 2024

#### **Ronald A. Crone**

Associate Laboratory Director Materials and Fuels Complex

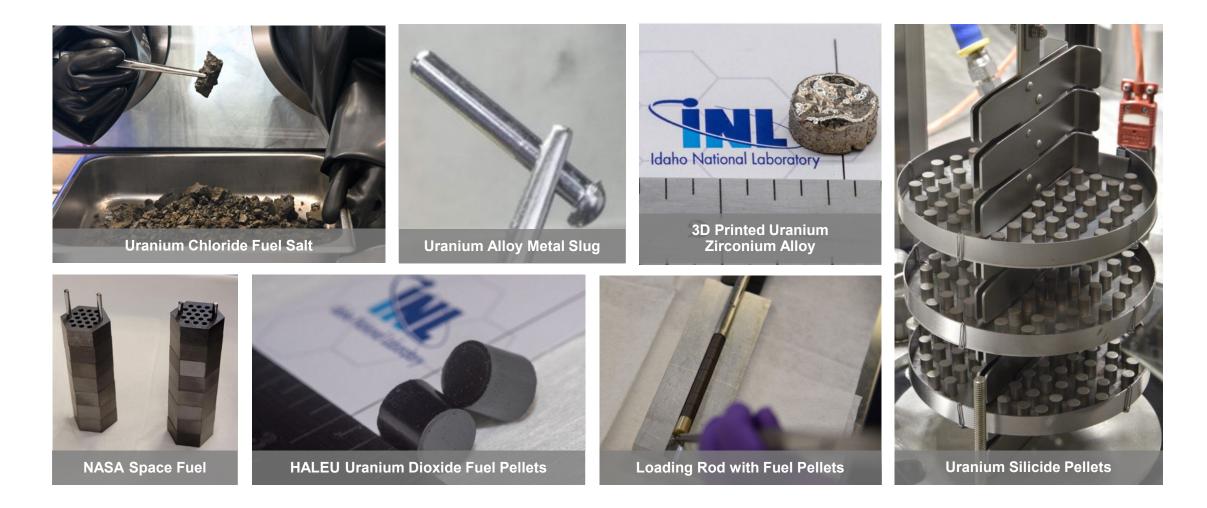


# Materials and Fuels Complex LINE Commission | Boise, ID

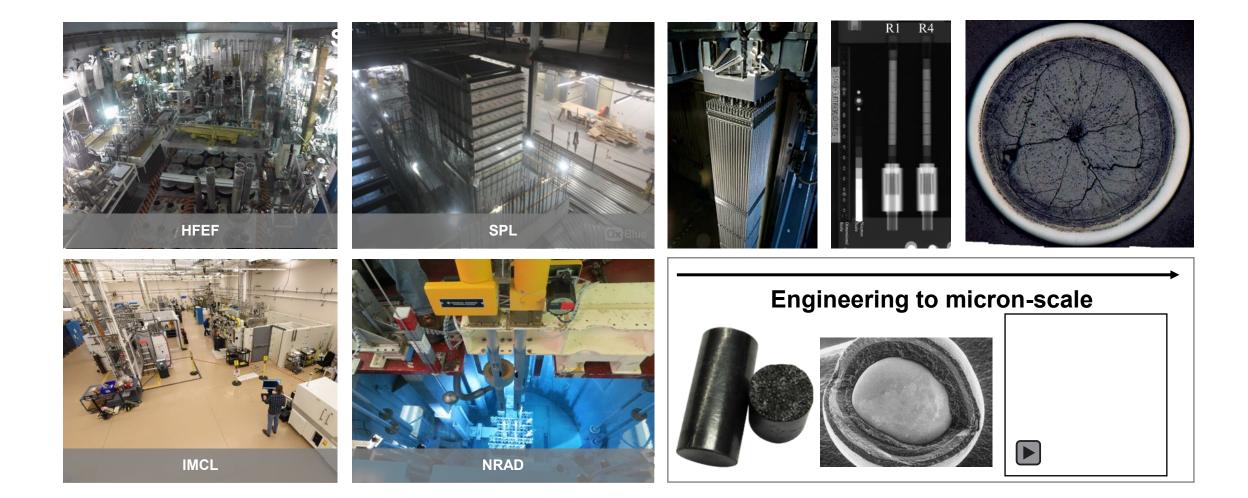
Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy



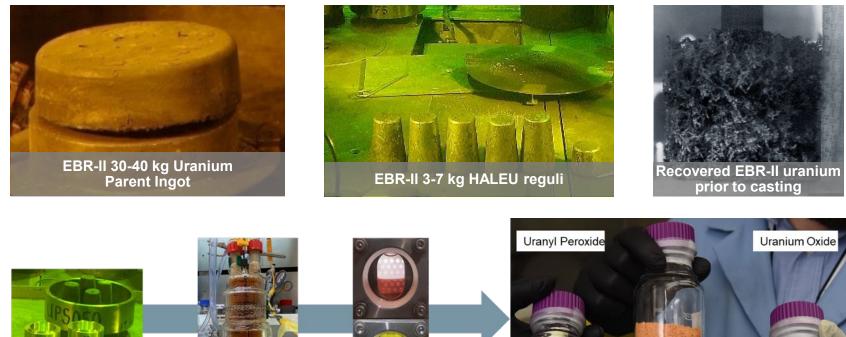
### **Fuel Fabrication**



### **MFC Post-Irradiation Examination**



#### **High-Assay Low-Enriched Uranium** (HALEU)





Low dose rate, small size HALEU metal regulus

U metal dissolution

U purification



#### **IDAHO NATIONAL LABORATORY**

#### **Demonstration of Microreactor Experiments** (DOME)





Rendering of the NRIC-DOME Test Bed Yard Area



Removal of Existing Facilities in Preparation for New Control Room

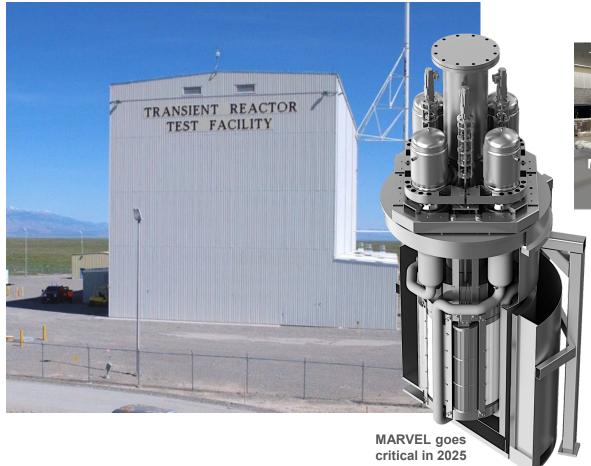


Removal of Existing Facilities in Preparation for New Control Room

### Laboratory for Operation and Testing in the United States (LOTUS)



#### **Microreactor Application Research, Validation and EvaLuation** (MARVEL)





MARVEL Materials Staged in BEA Storage Pending Fabrication of Primary Coolant System



MARVEL Materials on Truck Leaving Previous Vendor



#### IDAHO NATIONAL LABORATORY

### Lead Demonstration of Advanced Reactors: Pele









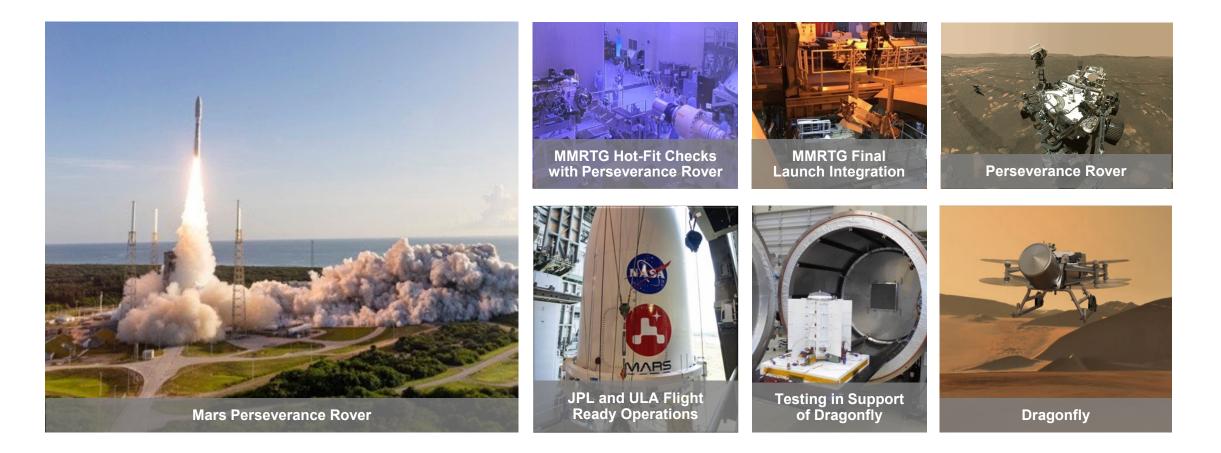


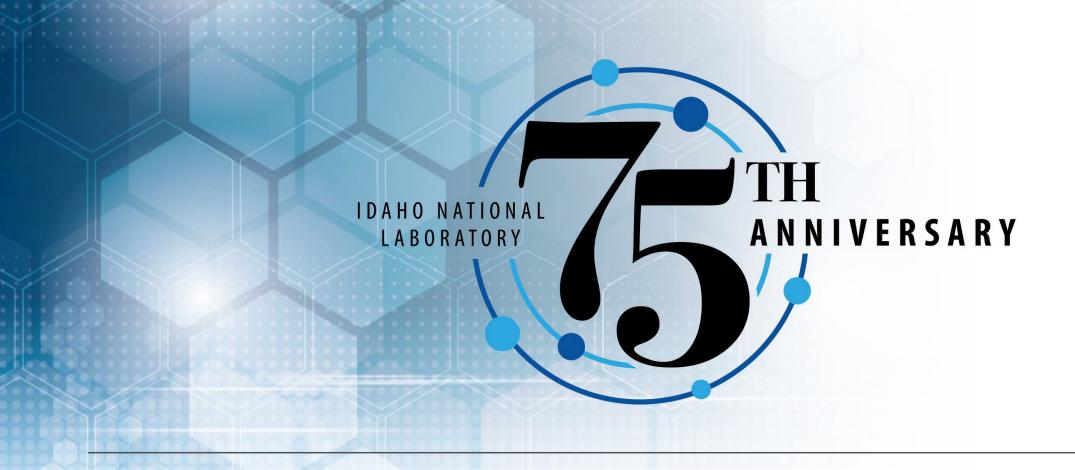
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## **Molten Chloride Reactor Experiment** (MCRE)



# **Space Nuclear**





Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy. INL is the nation's center for nuclear energy research and development, and also performs research in each of DOE's strategic goal areas: energy, national security, science and the environment.

