WE START WITH YES.



ARGONNE NUCLEAR ENGINEERING: THERMAL HYDRAULIC TESTING CAPABILITIES



DARIUS LISOWSKI

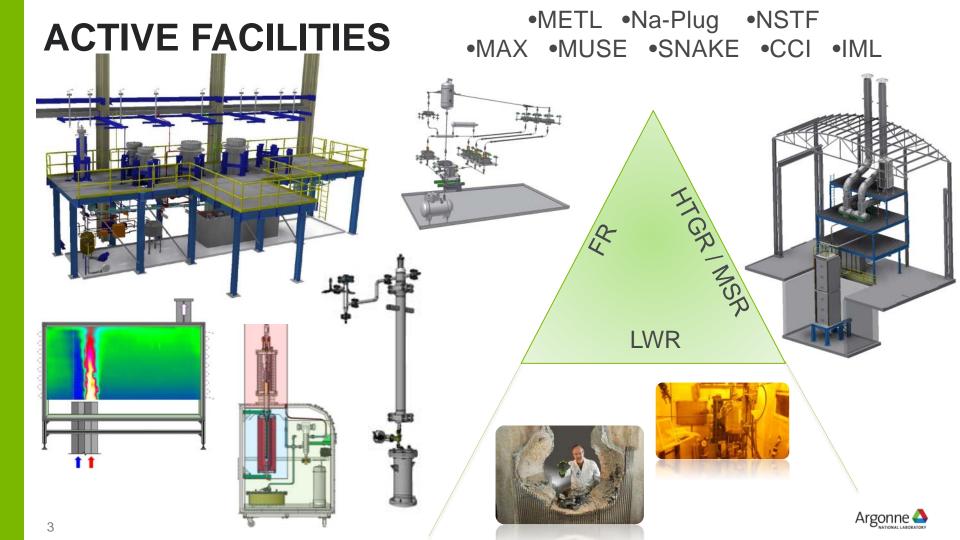
CRAIG GERARDI

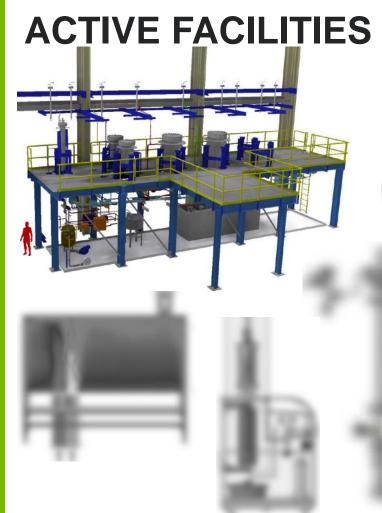
CHRIS GRANDY

INFRASTRUCTURE / OVERALL CAPABILITIES

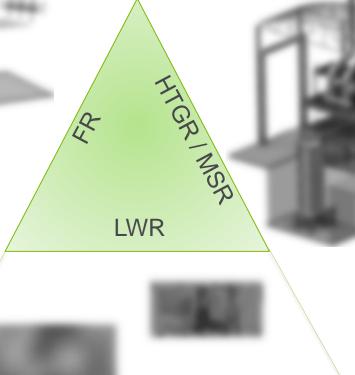
- Containment experiments Two 1,000m³ cells for high hazard work (3.7 atm.)
- Large scale test assemblies Interior high-bay space able to accommodate article heights from 8-m to 23-m
- High voltage power delivery 400 kW average, up to 3 MW, per building
- Two sodium scrubbers owned and operated by NE staff (30,000 SCFM)
- In-house services Radiography, ASME qualified weldors, full range machine shop, hoisting & rigging, canal water, analytical & material testing, etc.
- Hot work On-site Irradiated Materials Laboratory (IML) hosts four beta-gamma hot cells, labs, and glove boxes for hazard category <3
- Prototypic conditions
 - Half-height heated cavity with q" and ε of HTGR
 - 3,000-L Na inventory (R-grade) up to 650°C at FR
 - Severe accident behavior with uranium and corium for LWR and FR

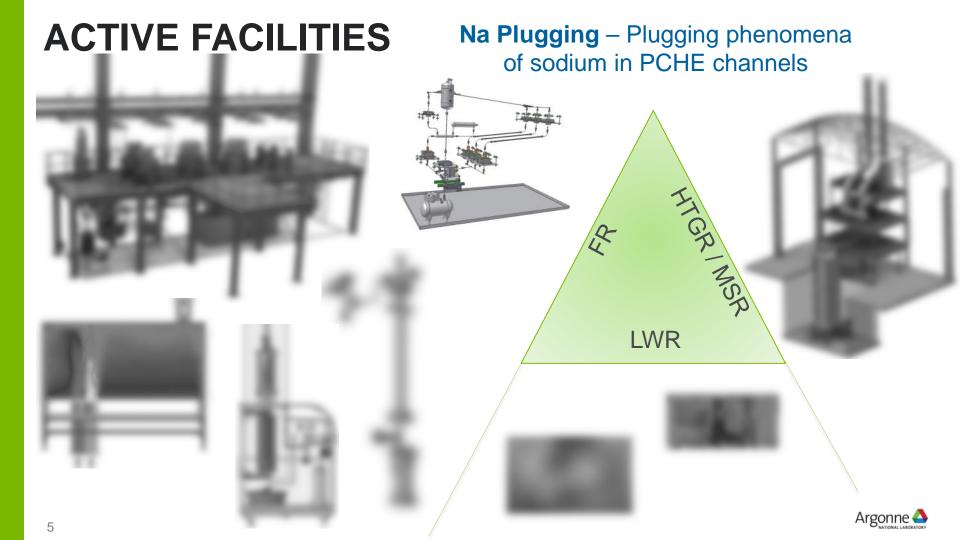


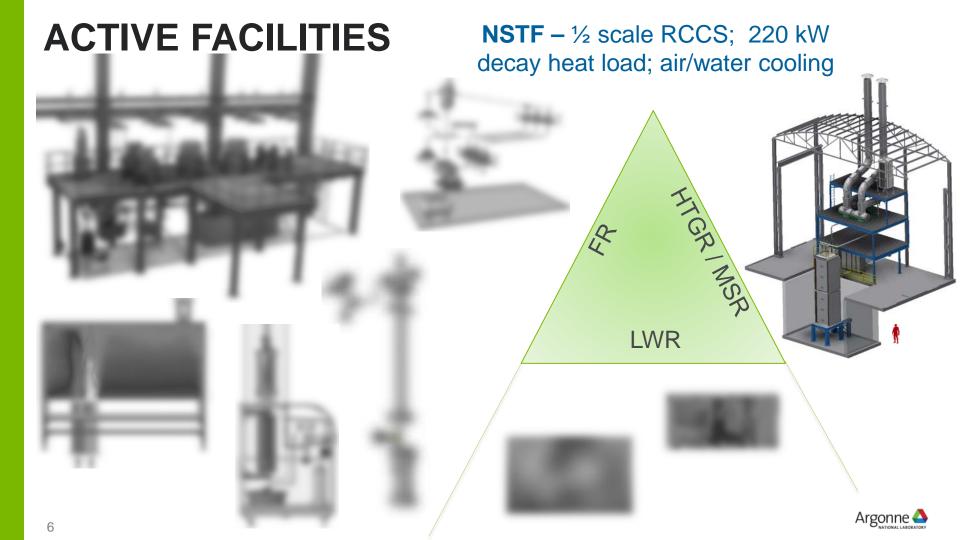




METL – Sodium component test facility: 3,000 liters across 4 vessels

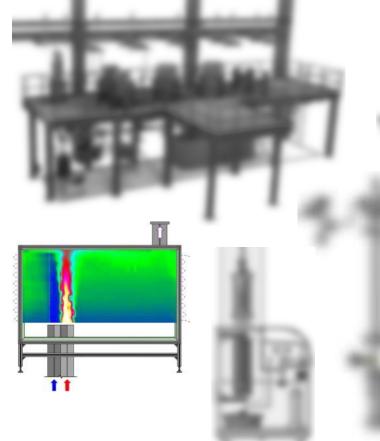


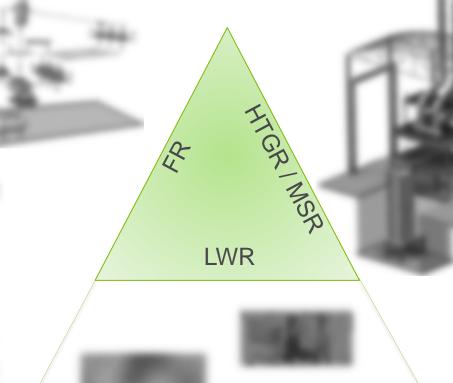




ACTIVE FACILITIES

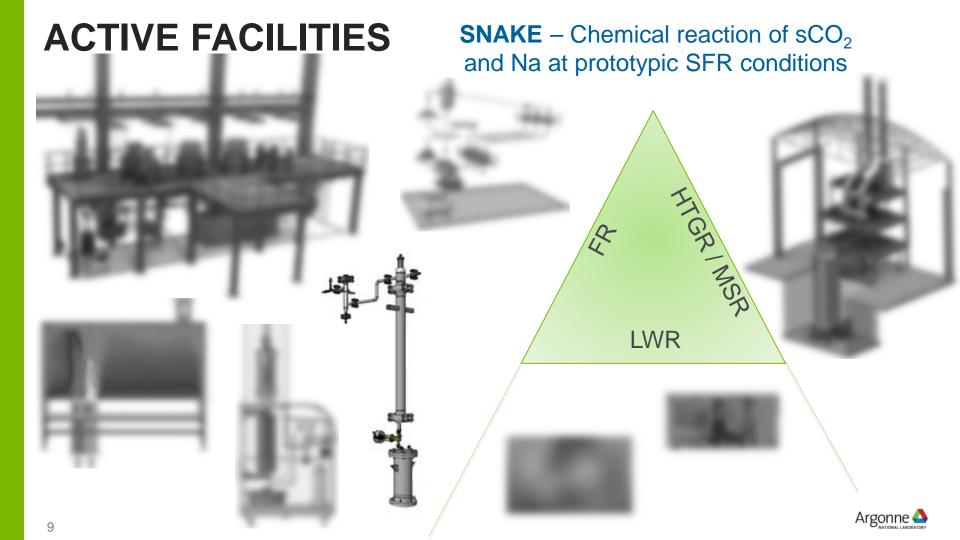
MAX – High fidelity instruments (DTS, PIV, LDV, IR, HSV) for CFD validation

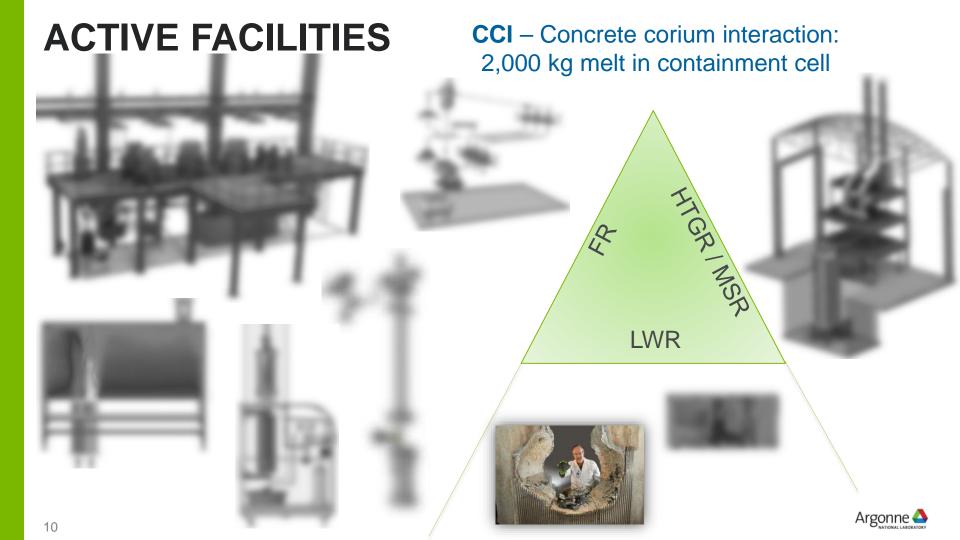


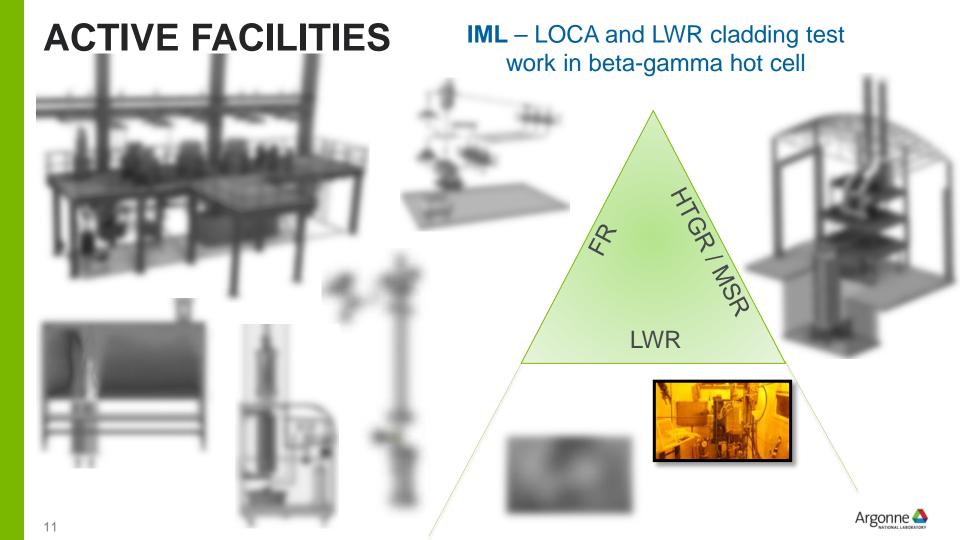




ACTIVE FACILITIES MUSE – Severe accident of metallic fuel in sodium cooled fast reactors **LWR**







WE START WITH YES.
AND END WITH THANK YOU.
DO YOU HAVE ANY BIG QUESTIONS?

