Microreactor Workshop – Inputs (in no particular order)

1) **High Assay Low-Enriched Uranium**
   - Need access to material
   - Deconversion to other than oxide
2) **Test Platforms**
   - Non-nuclear
   - Integrated heat transfer testing
   - Power conversion testing at full scale
   - Microgrid integration
3) **Demonstration siting**
4) **Addressing spent/used fuel and waste disposal**
   - Consider reuse of uranium
5) **Licensing**
   - Autonomous/remote operation
   - Transportation
   - Risk-informed licensing
   - US/Canada coordination on licensing
   - EPZ/Emergency planning
   - Physical Security

Microreactor Workshop – Inputs (continued)

6) **Access to computing capability and codes**
   - High performance computer access
   - Fully coupled codes
   - V&V

7) **Nuclear Data and Critical Experiments**
   - High temperature moderators
   - Epithermal data
   - Beryllium
   - HALEU/TRISO
   - Composite shielding
   - Fission product yields/gamma production
   - Structural materials/DPA

8) **Fuel and Structural Material Qualification**
   - TRISO
   - Irradiation testing
   - Code cases
   - Graphite data (low DPA)
   - Be data at high temperature

Microreactor Workshop – Inputs (continued)

9) **Advanced manufacturing including additive manufacturing**
   - Code qualification approach
   - What can and you cannot/do with AM?
10) **Instrumentation, sensors, controls**
   - Autonomous operations (semi, full)
   - Sensors
11) **Independent Verification of Designs**
12) **Fast-flux/high DPA irradiation capability**
13) **Market/Economic Assessments**
14) **Advanced heat exchangers**
15) **Security**
   - Physical security
   - Cyber security
   - Physical protection
16) **Access to legacy data and programmatic research products**
   - New production reactor
   - Microreactor program
17) **Community/user stakeholder engagement**