

Breakout Questions: Day 1 - Group C - Nuclear

- ▶ What are the most critical technical hurdles for achieving commercial success for advanced nuclear reactors from a materials perspective?
- ▶ Would reactor developers be willing to use new materials for structural purposes? If so, under what conditions (cost / benefit)?
- ▶ Use the table below to indicate how important each factor is (low, medium, high) for each reactor type.?

	Reactor Type						
Material Property	Light Water	Lead	Molten Salt	Gas	Very High Temp	Fast	Other?
Temperature Resistance							
Creep Resistance							
Corrosion Resistance							
Radiation Resilience							
Embrittlement							
Cost							
Manufacturability							
Other?							

- ▶ Based on the priorities/needs outlined above, what material systems are the best option to meet these requirements?
- ▶ What are the hurdles for testing and validation of nuclear materials?