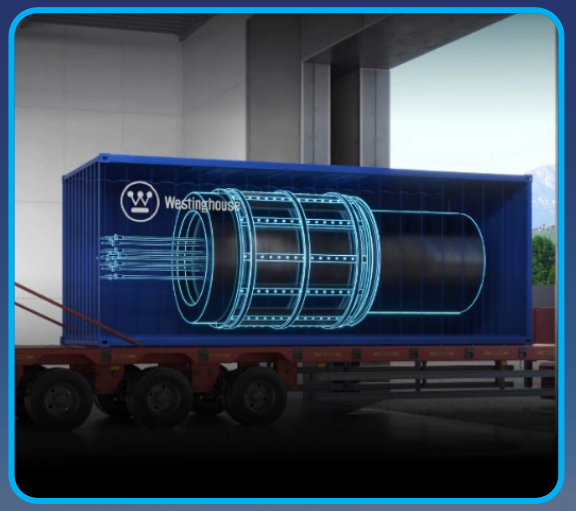
Innovative Solutions Portfolio

Meeting customers' flexible energy demands by shaping today's and tomorrow's energy landscape

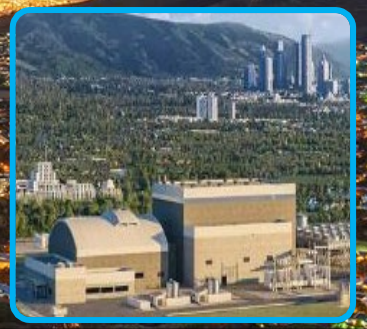


eVinci™ Microreactor
5 MWe

eVinci™ Space Reactors
10 kWe to 2 MWe

AP1000® PWR
~1200 MWe

AP300™ SMR
300 MWe



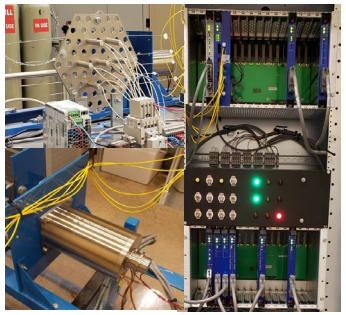
Lead Fast Reactor
450 MWe

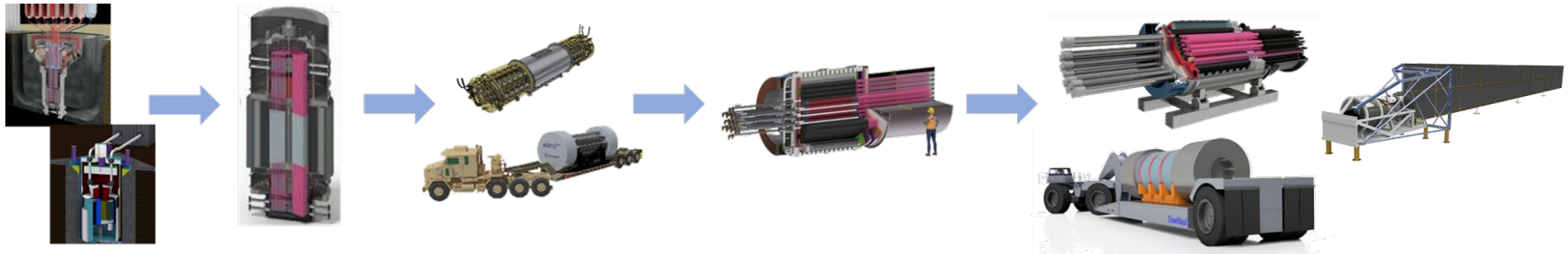
Leveraging Decades of Government & Westinghouse Research, Technology & Manufacturing for our Heat Pipe Reactors

- **1980s to 2000** - Heat pipe reactors developed for space due to simplicity, small size & passive cooling
- **2000 to 2015** – NASA and National labs lead materials and reactor design development research
- **2015** – Westinghouse began development of heat pipe concepts
- **2018** – NASA & National lab led demonstration of 5 kW heat pipe reactor (KRUSTY)
- **2019** – Technology transfer executed on heat pipe design & manufacturing with LANL, followed by execution of our product development and 1 MWe eVinci reactor baseline.
- **2020** – Completed construction of eVinci test facility & manufactured first sodium heat pipe
- **2021** – Electrical demonstration of seven heat pipe core assembly at operating temperature
- **2022** – Material compatibility testing & conceptual design completed. 20 technical papers & 2 topical reports delivered to US NRC. Fabricated first heat pipe for Nuclear Test Reactor (NTR) design. Conceptual design phase complete
- **2023** – Presented design overview to the Advisory Committee on Reactor Safeguards. Completed delivery of pre-licensing commitments in 31 technical papers and 3 Topical Reports. Completed the Preliminary Design Review for the NTR Reactor System & Components.

In partnership with LANL, we've been testing and manufacturing UN fuel for over a decade under the DOE's Accident Tolerant Fuel program

Westinghouse developed our Advanced Logic System (ALS) as a nuclear-safety control system for the AP1000 design and is in operation at Vogtle and other US operating reactors today.





High temperature, high performance heat pipes are Westinghouse technology that deliver a strategic advantage in safety and reliability for space and terrestrial applications

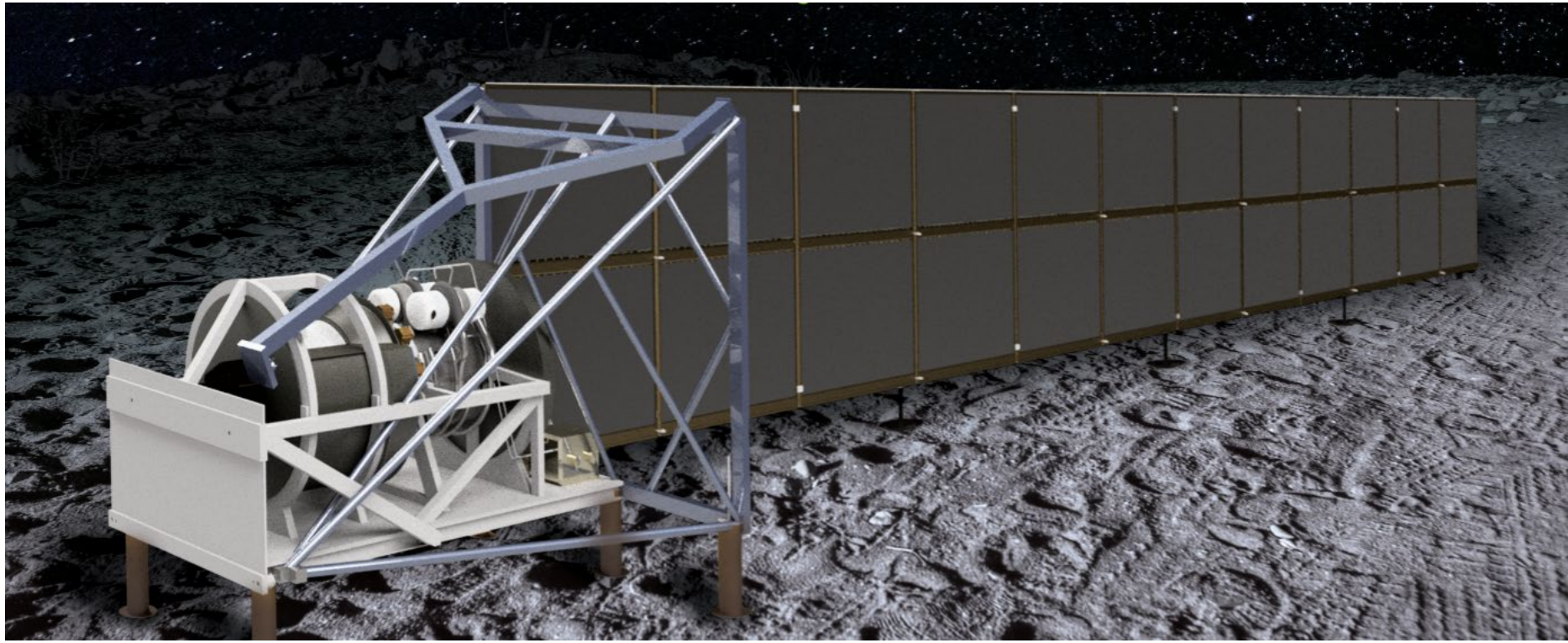
Westinghouse

Westinghouse is proud to have developed a conceptual design for a 40 kWe Heat Pipe Reactor under the Fission Surface Power Program

Parameter	Fission Surface Power
Power	40 kWe
Fuel	Uranium Nitride
Fuel Cycle	10+ years
Coolant	Heat Pipes
Reactor Pressure	~1 atm
Power Conversion	Closed Brayton
Decay Heat Removal	Radiator

Learn more about heat pipes & Westinghouse technology at navigator-voyantstudios.com

Our technology is the ready to spearhead the next generation of space power with a scalable, extensible, and resilient solution for NASA's future missions



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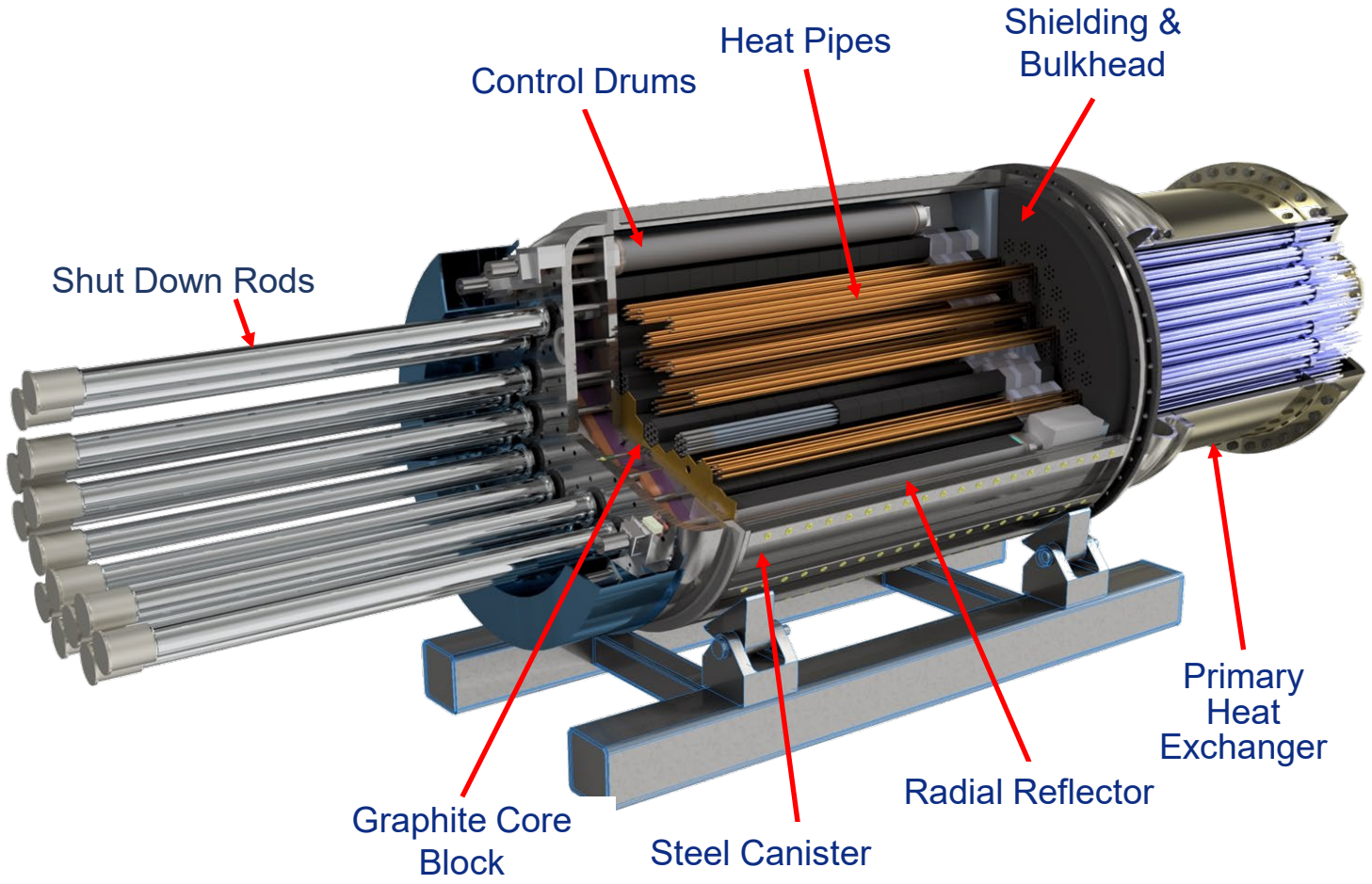
eVinci Microreactor & Space Reactor

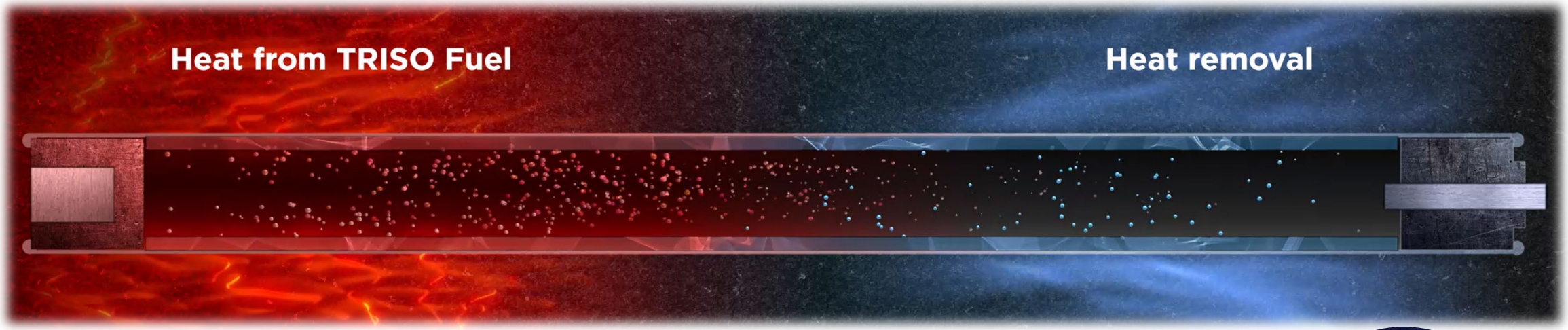
Safe, Reliable, and Resilient through passive heat pipe technology & a very low-pressure core

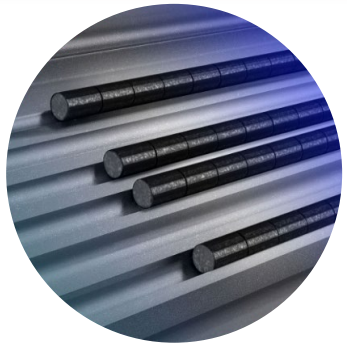
Parameter	eVinci	Space
Power	15 MWt	200 kWt to 6 MWt
Fuel Cycle	8 years	10 to 20 years
Coolant	Heat Pipes	Heat Pipes
Reactor Pressure	~1 atm	~1 atm
Power Conversion	Open Brayton	Closed Brayton
Efficiency	34%	~28% to 34%
Decay Heat Removal	Conduction & Natural Air Circulation	Radiator



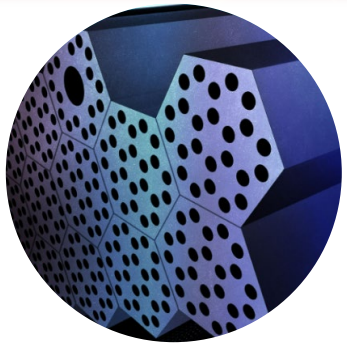
Heat Pipes Enable the Vision of the Fission Battery

Very Low Pressure • Passive • Isothermal • Self-Regulating

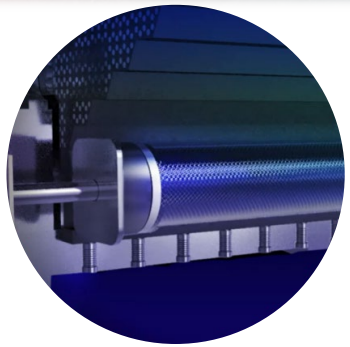




Fuel

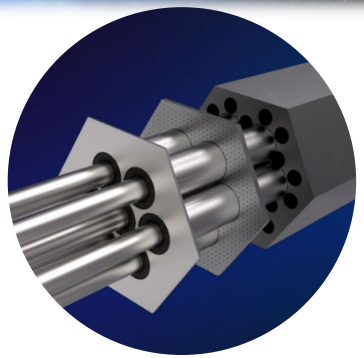


Core Block



Control Drum

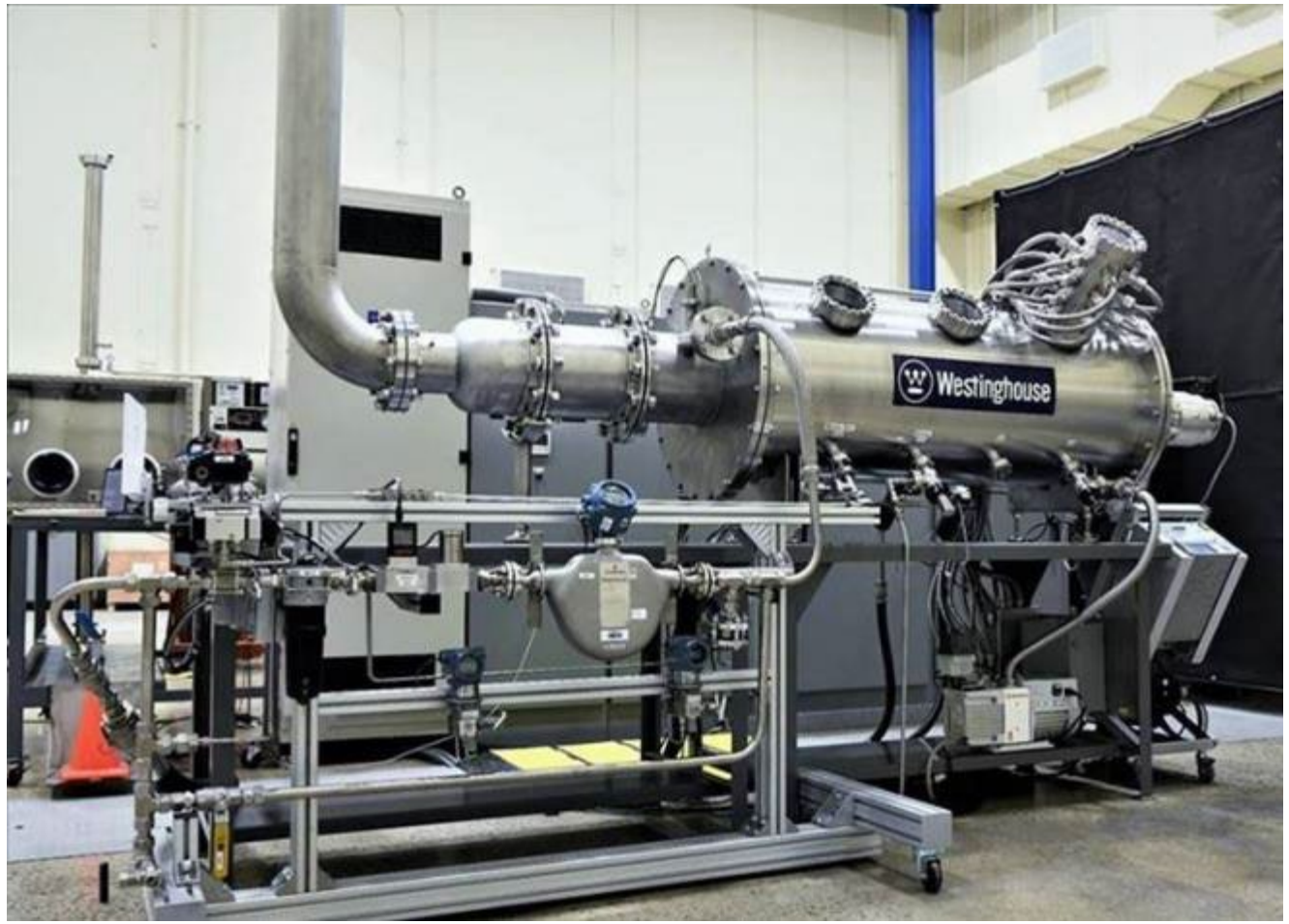
Shutdown Rod



Primary Heat Exchanger

Westinghouse

Revolutionary technology and safety from a global leader in power generation engineering and design



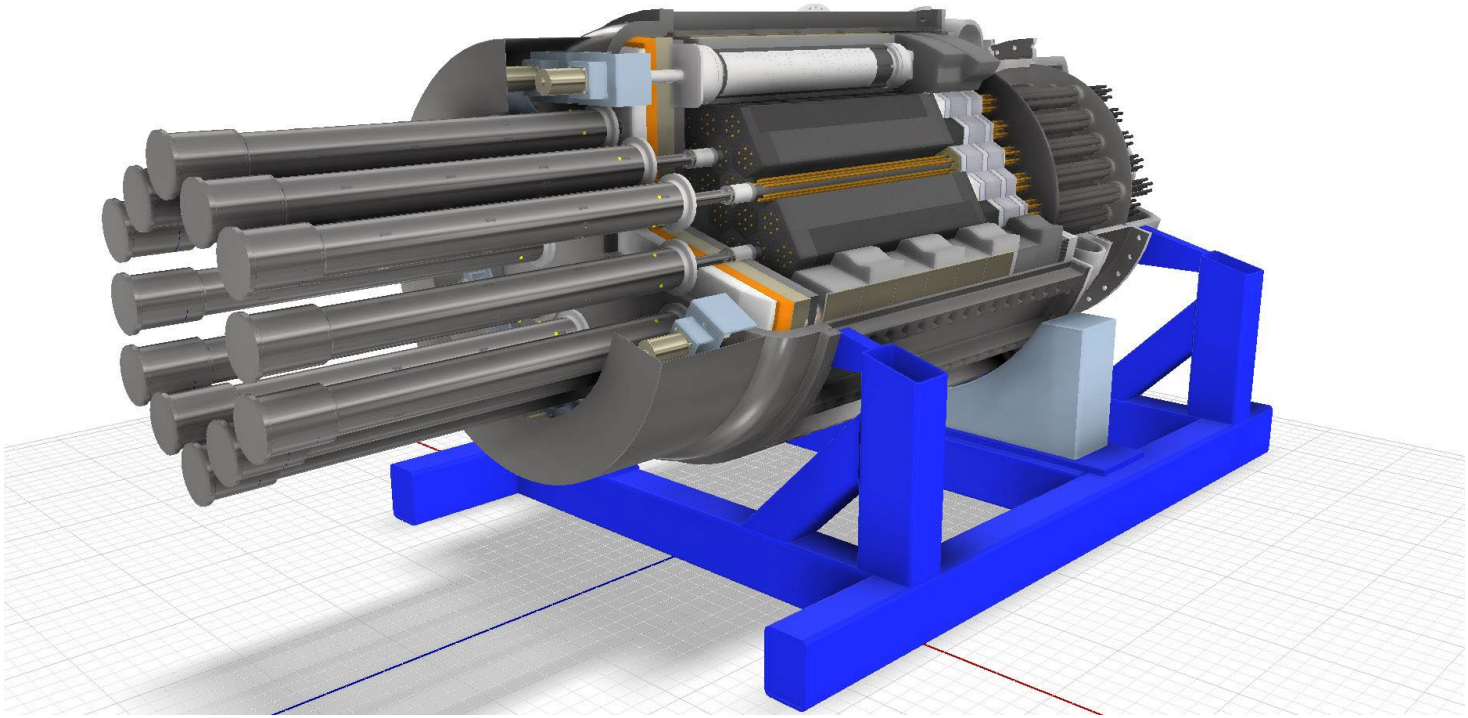
Test Chamber

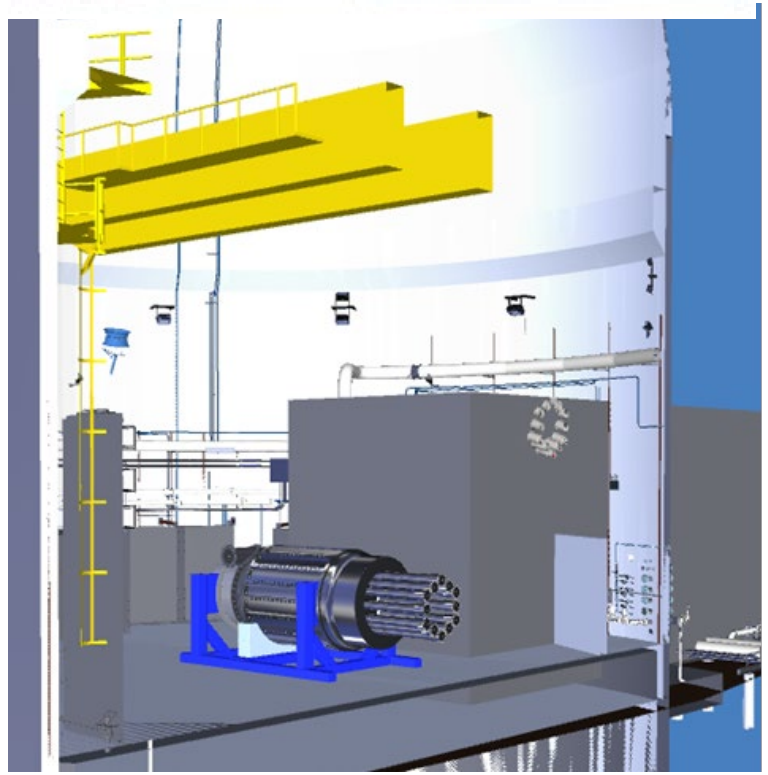
Heat Pipes

Core Block

Nuclear Test Reactor in 2026

- Our NTR program will validate our reactor's safety and performance at the Idaho National Laboratory inside the EBR-II Dome in collaboration with the National Reactor Innovation Center





Thank You

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