



SMR Demonstration Opportunities at the Nevada National Security Site

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Nevada National Security Site (NNSA)

The Nation's Only All-Hazards Proving Ground

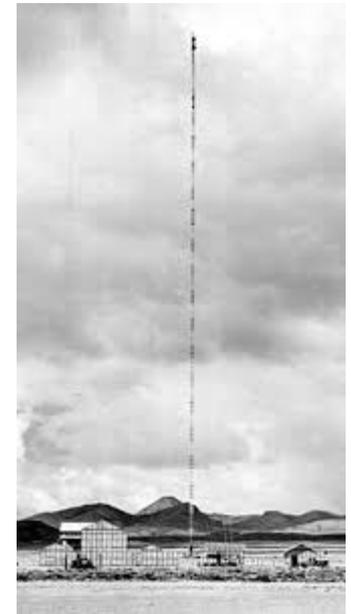
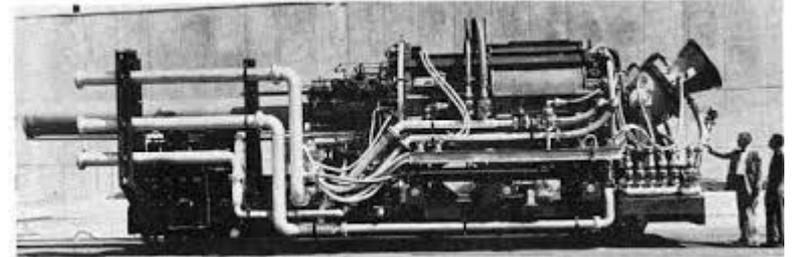
- 1,375 square miles
- 65 miles northwest of Las Vegas, NV
- Restricted Air Space
- High Security/No Encroachment
- Nuclear Operations Infrastructure
- Scientific, Engineering, and Technical Support
- Utilities and Communications
- 24/7 Emergency Services and Operations Support
- On-Site Waste Management



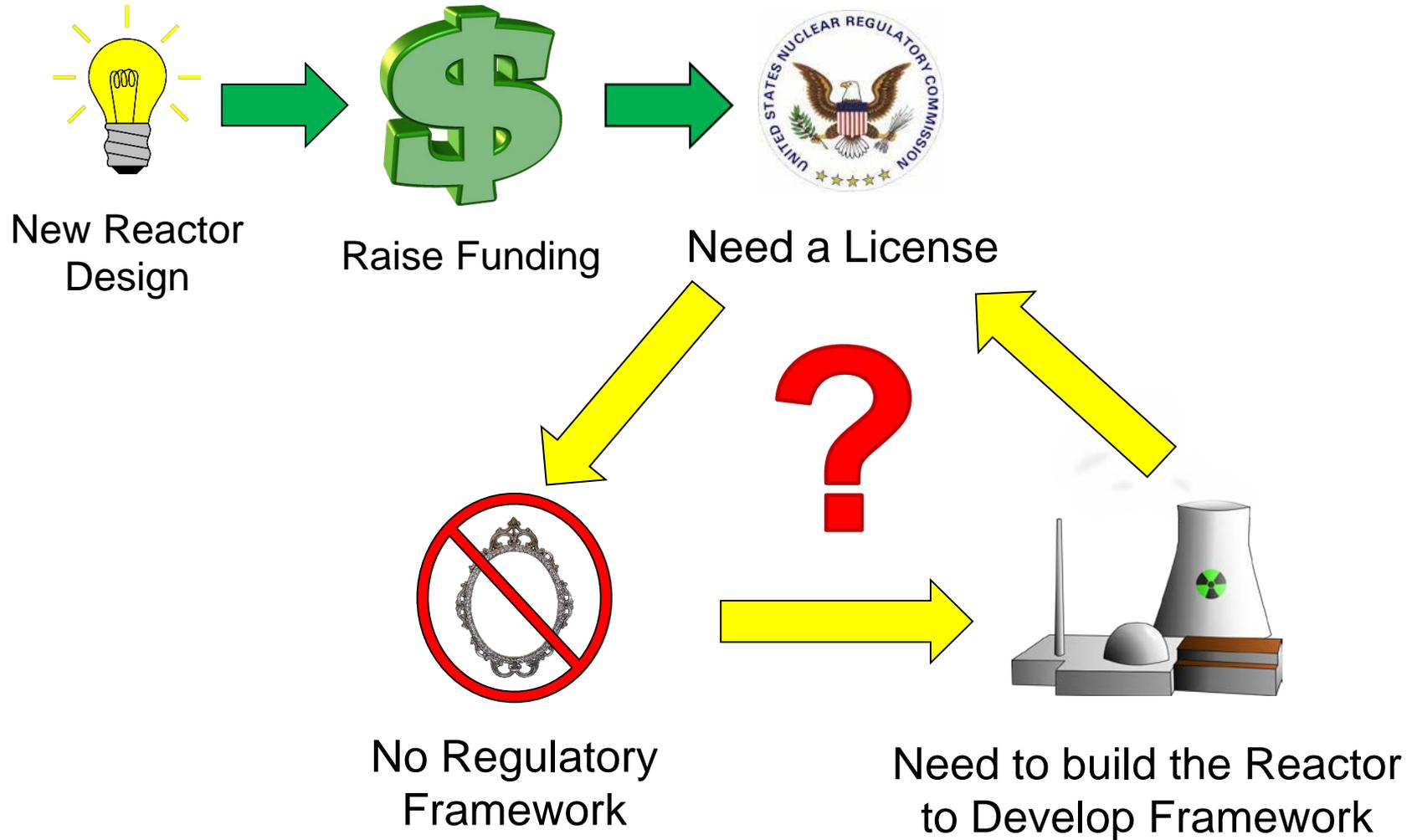
Bringing National Laboratory
Technology to the Field for 65 Years!

NNSS History of Nuclear Reactor Operations

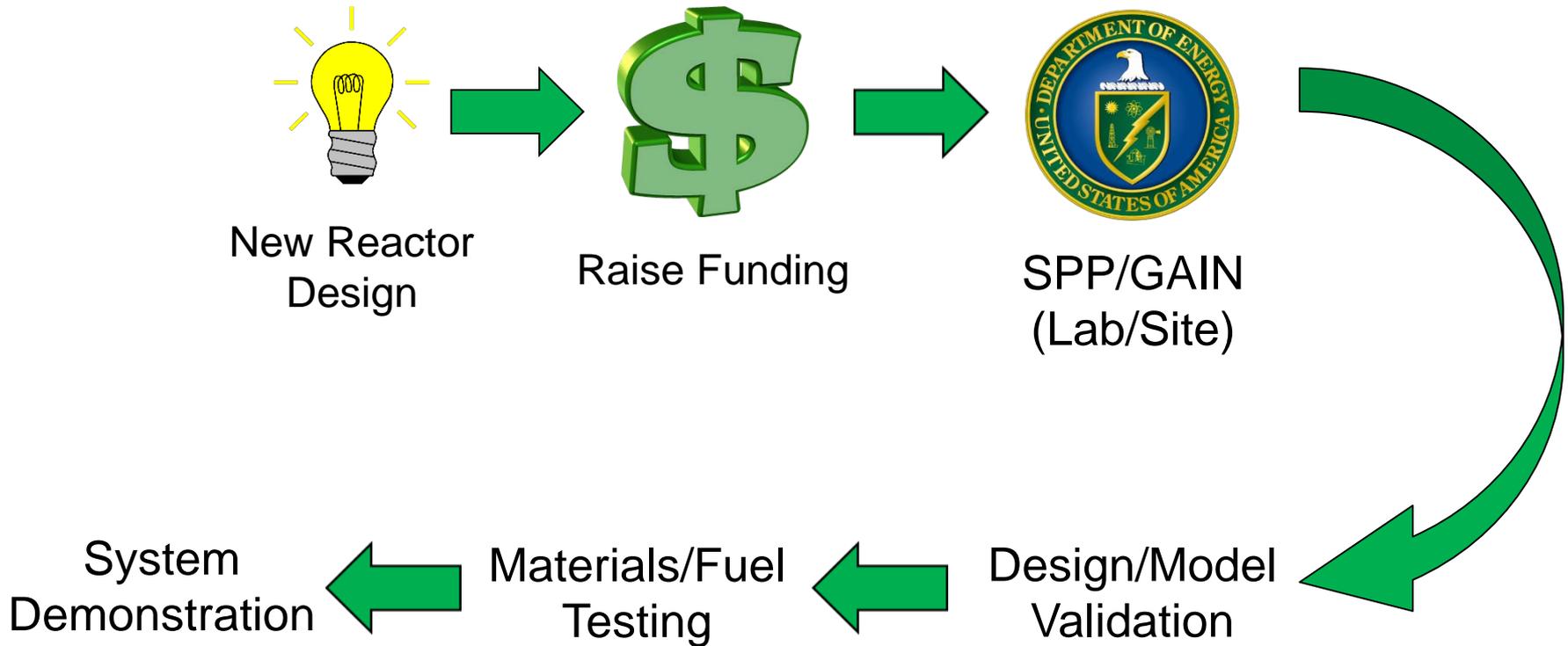
- Project Rover/NERVA (Nuclear Engine for Rocket Vehicle Application), Los Alamos National Laboratory, 1955-1972
- Project Pluto, Nuclear Powered Ramjet for Cruise Missiles, Lawrence Livermore National Laboratory, 1961-1964
- BREN Tower (Bare Reactor Experiment – Nevada), Atomic Energy Commission, 1965



The Problem Facing SMR Developers



One Solution...



What If...?



U.S. DEPARTMENT OF
ENERGY

**Advanced
Reactor
Technology
Demonstration
Center**



U.S. NRC

United States Nuclear Regulatory Commission
Protecting People and the Environment

**Advanced
Reactor
Regulatory
Development
Center**



Additional Benefits

- On-Site Waste Management
- Safeguards by Design
- Operator Training
- Environmental Impact Studies
- Emergency Action Planning
- Advanced Control Systems Assessment (Cyber, etc.)
- Demonstrate LWR Spent Fuel Recycling and Waste Reduction Strategies



Public/Private Cooperation enables the safe, affordable, and timely evolution from SMR concept to commercial power!