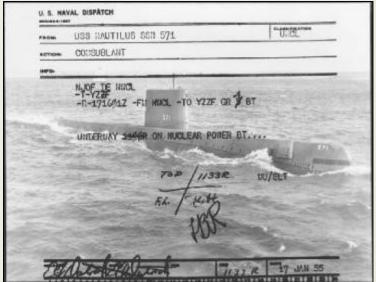


United States Naval Nuclear Propulsion Program Nuclear Data







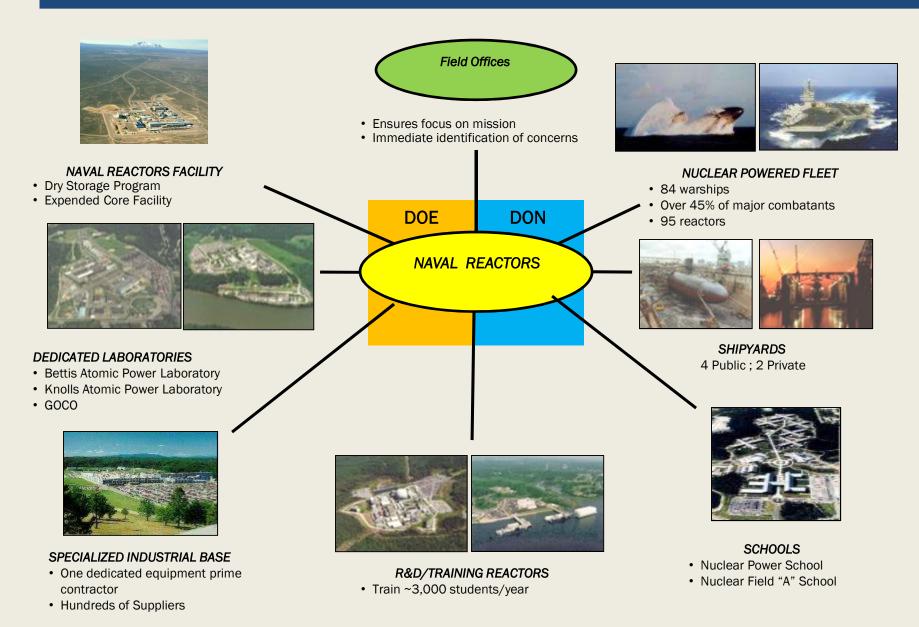






Stephen Bell Naval Reactors

Naval Nuclear Propulsion Program



Naval Nuclear Propulsion Program Nuclear Method/Data Drivers

- 30-40+ year life of ship submarine cores
- 60-90 year project life cycles
- Transport theory design process
- Spent Fuel Handling & Storage
 - New facility
 - Dry storage and repository disposal





Nuclear Data Priorities

Long-lived fission products (fission product credit)

Mo-95	Tc-99	Ru-101	Rh-103	
Cs-133	Cs-135	Pr-141	Nd-143	
Nd-145	Sm147	Sm-145	Sm-150	
Sm-152	Eu-153			

- Elastic scattering angular distribution
 - Fe-56 (for shielding)
 - Zirconium
- Light water reactor materials
 - U-236 neutron capture
 - Zirconium, hafnium
- Irradiation damage
- Thermal scattering law data



