VISION: A national reputation of excellence that is responsive to the Nation's nuclear security and strategic defense needs.

NNSA Strategic Integrated Roadmap FY2020 - FY2045 N

MISSION: To protect the American people by maintaining a safe, secure, and effective weapons stockpile; reducing 2024 global nuclear threats; and providing naval nuclear propulsion. Restart binary production capability -2025 Complete restructuring of NEST's Complete B61-12 Life Extension radiological public health & safety capability Workforce Program 2023 Demonstrate enhanced tritium Support the commercial establishment of robust domestic production capability **Acquisitions** Mo-99 production without use of highly enriched uranium MISSION Establish counter nuclear smuggling Establish exascale computing **ENABLERS** capability in 80 countries IT & Cybersecurity 2021-Establish centers of excellence to Initiate concept assessment for W93 improve cybersecurity operations Safety, Security & throughout Nuclear Security Enterprise **Emergency Management** Modernize federal unclassified IT infrastructure Complete high explosive facilities 2020 Reduce deferred maintenance by $\geq 30\%$ MISSION GOALS Complete analysis of Protection Level **PRIORITIES** Complete Uranium Processing Facility 1-8 of Design Basis Threat policy Nuclear Integrate & implement nuclear security program 94**Pu** Deterrent Improve weapon product realization cycle time/responsiveness Nuclear Reduce global nuclear threats & prevent nuclear proliferation X X **X** Threats Counter nuclear terrorism & respond to incidents Nuclear Provide nuclear operations to the Fleet Propulsion Develop new nuclear plants & technology Science and Leverage technology solutions with business operations Technology Lead technology & engineering innovations Infrastructure Reduce average age of infrastructure & deferred maintenance Modernization Recapitalize infrastructure & dispose of excess assets 3 Finalize conversion of highly enriched uranium Complete W88 Alteration 370 Mo-99 targets to low enriched uranium Achieve 30 pits per year Complete execution of the Capability 🔵 production capability Forward initiative in major US cities Build capacity to complete forensic Assure integration & advancement of analysis of nuclear materials USG nuclear forensics capabilities Complete Naval Spent Fuel Handling Facility Complete S8G Prototype Fuel **Reactor Refueling & Overhaul** Conduct first test using Enhanced Complete NNSA Capabilities for Subcritical Experiments

material removal 2029 -

Complete reactor

plant design for

COLUMBIA-class

submarine

-2027

2026

Complete Power Sources Capability Facility

Albuquerque Complex

Bolster security protocols for highly classified information

Modernize the Enterprise Secure Network & Cyber infrastructure 2022 -



"Strengthening our Nation through Nuclear Security"



