VISION NNSA Strategic Integrated Roadmap A national reputation of excellence that is responsive to 2020-2044 the Nation's nuclear security and strategic defense needs. **MISSION** To protect the American people by maintaining a safe, secure, and effective weapons stockpile; 2023 2021 reducing global nuclear threats; and - 2028 2035 Establish render -2031 Complete providing naval nuclear propulsion. -2025 Begin operations of safe capability Finalize Highly-Enriched S8G Prototype Complete W80-4 Demonstrate enhanced tritium Surplus Plutonium in 14 cities as part 2042 Uranium reactor conversions Reactor Life Extension Program production capability **Disposition Project** 2020 of the Capability Deliver final Refueling & Forward initiative Establish counter nuclear smuggling Deliver final nuclear detonation Complete Combined Radiation Implement 🔵 **COLUMBIA-class** Overhaul capability in 80 countries detectors to US Air Force **Environments for Survivability Testing** Establish Exascale Design Basis submarine -2029 Complete Naval Spent Fuel Threat policy Computing Deliver first COLUMBIA-Modernize Handling Recapitalization Project Complete excess -2036 class submarine MISSION Federal Modernize NNSA nuclear material **GOALS** Reduce deferred maintenance by ≥ 30% Complete W87-1 Unclassified IT Albuquerque **PRIORITIES** Complete Tritium removal (W78 replacement) Complete Uranium Processing Facility infrastructure Complex **Finishing Facility** Nuclear Integrate and implement nuclear security program UF₆ Improve weapon product realization cycle time/responsiveness **Deterrent** Nuclear Reduce global nuclear threats and prevent nuclear proliferation Threats Counter nuclear terrorism and respond to incidents Nuclear Provide nuclear operations to the Fleet **Propulsion** Develop new nuclear plants and technology **Science and** Leverage technology solutions with business operations **Technology** Lead technology and engineering innovations Infrastructure Reduce average age of infrastructure & deferred maintenance Modernization Recapitalize infrastructure and dispose of excess assets Replace cesium blood Complete (Modernize utilities Complete W88 Alteration irradiators domestically Radiological across all sites Modernize the **CROSS-CUTTING INITIATIVES FOR MISSION SUCCESS** 370 and B61-12 Life Security **Enterprise Secure** 2038 Establish Domestic **Extension Program** Complete Lithium Deliver final Enhancements Network & Cyber **Uranium Enrichment Processing Facility** - 2024 nuclear detonation 2033 infrastructure Capability -2027 detector payload -2039 Achieve production of at Complete Complete Naval least 30 Plutonium Pits Achieve production of at least Safety, Security and IT and Chemistry & Examination per year at LANL 80 Plutonium Pits per year Cybersecurity Metallurgy **Acquisition Project** Research Building Finalize construction/modernization of **(** -2034 Establish Enhanced Complete execution of the Replacement 10 million gross square feet office/lab space Capabilities for Security Infrastructure -2022 2043 -**Subcritical Experiments Revitalization Program** 2030 2026 -**PUBLISHED:** May 2019