

as well as prepare for long-term operation of the office. The Office of Clean Energy Demonstrations (OCED) represents an opportunity for the Department to provide dedicated expertise and focus to successfully implement large-scale, pre-commercial clean energy technology demonstrations. The Department is encouraged to prioritize technology demonstrations for the highest emitting sectors.

The agreement notes support for the Department's efforts to demonstrate the technical and economic viability of carrying out alternative energy projects on current and former mine land compatible in a manner with existing operations.

The Department is directed to continue to provide the Committees quarterly briefings on efforts to conduct administrative and project management activities for technology demonstrations.

The Department is directed to conduct OCED activities on a competitive basis and include cost-share requirements pursuant to section 988 of the Energy Policy Act of 2005. The Department is encouraged to conduct these activities through technology neutral solicitations focused on crosscutting energy challenges. It is expected that the Department avoid the practice of making awards dependent on funding from future years' appropriations.

ADVANCED RESEARCH PROJECTS AGENCY— ENERGY

The agreement provides \$470,000,000 for the Advanced Research Projects Agency—Energy.

The budget request proposes to expand ARPA-E's scope to focus on climate innovations, adaptation, and resilience. The agreement notes that ARPA-E already has the ability to fund this work through section 5012 of the America COMPETES Act. This includes climate-related innovations, and further, the agreement notes that ARPA-E already funds such activities.

TITLE 17 INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM

The agreement provides a net appropriation of \$31,206,000 in administrative expenses for the Title 17 Innovative Technology Loan Guarantee Program.

As provided in 42 U.S.C. 16511, the Secretary may make guarantees under this section only for projects that avoid, reduce, or sequester air pollutants or anthropogenic emissions of greenhouse gases and employ new or significantly improved technologies as compared to commercial technologies in service in the United States upon issuance of the loan guarantee.

ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PROGRAM

The agreement provides \$9,800,000 for the Advanced Technology Vehicles Manufacturing Loan Program.

TRIBAL ENERGY LOAN GUARANTEE PROGRAM

The agreement provides \$4,000,000 for the Tribal Energy Loan Guarantee Program.

INDIAN ENERGY POLICY AND PROGRAMS

The agreement provides \$75,000,000 for Indian Energy Policy and Programs.

The agreement provides up to \$45,000,000 to advance technical assistance, demonstration, and deployment of clean energy for households and communities in tribal nations to improve reliability, resilience, and alleviate energy poverty.

The agreement provides up to \$8,000,000 for coordinated research, development, deployment, and training related to advanced microgrid-enabling technologies, with a focus on underserved and Indigenous communities in remote and islanded areas.

The Department is encouraged to use its cost share waiver authority under section

2602 of the Energy Policy Act of 1992, as modified by section 8013 of the Energy Act of 2020, when appropriate.

The Department is encouraged to partner with organizations with specialized experience addressing local energy challenges, including community-based organizations and institutions of higher education, with a priority for minority-serving institutions.

The agreement notes support for the Office of Indian Energy's efforts to utilize local Subject Matter Experts to assist Indian Tribes and Alaska Native Villages in development energy projects and providing support for energy planning.

The Department is encouraged to design funding opportunity announcements that do not exclude tribes based on local land ownership structures, consistent with expanded authority under section 2602 of the Energy Policy Act of 1992, as modified by section 8013 of the Energy Act of 2020.

DEPARTMENTAL ADMINISTRATION

The agreement provides \$283,000,000 for Departmental Administration.

Control Points.—The agreement includes eight reprogramming control points in this account to provide flexibility in the management of support functions. The Other Departmental Administration activities include Management, Project Management Oversight and Assessments, Chief Human Capital Officer, Office of Small and Disadvantaged Business Utilization, General Counsel, Office of Policy, and Public Affairs. The Department is directed to continue to submit a budget request that proposes a separate funding level for each of these activities.

Chief Information Officer.—The agreement provides not less than \$125,000,000 for cybersecurity and cyber modernization across the Department. The agreement provides up to \$10,000,000 for the IM Office of Architecture, Engineering, Technology, and Innovation to expand low-code application development across the Department and establish a Low-Code Platform Factory that improves the efficiency of custom application development, improves cybersecurity posture, reduces operation and maintenance costs associated with legacy applications, and empowers Department personnel who are closest to problems to create solutions, selecting low-code application development options that are most appropriate for each mission need pursuant to IM's market research.

International Affairs.—The agreement provides \$2,000,000 for the Israel Binational Industrial Research and Development (BIRD) Foundation and \$4,000,000 to continue the U.S. Israel Center of Excellence in Energy Engineering and Water Technology.

Other Departmental Administration.—The agreement provides not less than \$35,000,000 for the Chief Human Capital Officer, not less than \$13,500,000 for Project Management Oversight and Assessments, and not less than \$20,000,000 for the Office of Policy.

U.S. Energy and Employment Report.—The Department is directed to continue to complete an annual U.S. energy employment report that includes a comprehensive statistical survey to collect data, publish the data, and provide a summary report. The information collected shall include data relating to employment figures and demographics in the U.S. energy sector using methodology approved by the Office of Management and Budget in 2016. The Department is directed to produce and release this report annually.

The agreement is supportive of the work on the CIO Business Operations Support Services (CBOSS) program, and the Department is directed to provide regular updates on any developments regarding this effort.

The Arctic Energy Office is encouraged to explore the feasibility, scalability, and po-

tential commercialization of utilizing data server waste heat from immersion cooling technologies as a heat source for integration with other renewable energy resources for heat pump district heating purposes.

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$86,000,000 for the Office of the Inspector General.

The Inspector General is directed to continue providing quarterly briefings to the Committees on implementation of the independent audit strategy.

ATOMIC ENERGY DEFENSE ACTIVITIES

NATIONAL NUCLEAR SECURITY ADMINISTRATION

The agreement provides \$22,162,564,000 for the National Nuclear Security Administration (NNSA). The agreement continues funding for recapitalization of our nuclear weapons infrastructure, while modernizing and maintaining a safe, secure, and credible nuclear deterrent without the need for underground testing. The agreement supports continuing important efforts to secure and permanently eliminate remaining stockpiles of nuclear and radiological materials both here and abroad to reduce the global danger from the proliferation of weapons of mass destruction. The agreement also supports Naval Reactors and the important role they play in enabling the Navy's nuclear fleet.

A highly skilled and diverse workforce is required to maintain and modernize the nuclear weapons stockpile and execute the global nonproliferation initiatives of the NNSA. The agreement commends the NNSA for considerable progress made to recruit and retain this unique workforce but reminds NNSA to remain within authorized staffing levels in the coming fiscal year.

The agreement notes concern with NNSA's lack of transparency and inability to proactively communicate with the Committees. NNSA is directed to provide to the Committees not later than 30 days after enactment of this Act a briefing on its plan for improved communication and outreach with the Committees.

NNSA Reorganization.—The agreement notes concern that NNSA has not clearly defined a compelling rationale that justifies its May 2022 announced reorganization. Reorganizations are often disruptive to work and difficult on the workforce, which in turn can decrease overall performance and productivity. Further, NNSA's high-level goals for the reorganization are unspecific, and NNSA may find it difficult to determine whether the reorganization is successful. NNSA should take additional action while it continues to implement its July 2022 reorganization.

Therefore, NNSA is directed to establish not later than 90 days after enactment of this Act specific goals and performance measures for its July 2022 reorganization. NNSA is further directed to report to the Committees not later than one year after enactment of this Act and annually thereafter for five years on its progress to meeting the specific goals for the July 2022 reorganization using the established performance measures.

Enhanced Mission Delivery Initiative.—The agreement recognizes the unique challenges associated with the operations of the nuclear security enterprise. Given its current workload, recruiting and retention concerns, and the importance of the relationship between the federal personnel and the M&O contractors, NNSA action on recommendations in its recent Enhanced Mission Delivery Initiative (EMDI) may be prudent. Prior to NNSA's implementation of any EMDI recommendations, the Comptroller General of the United States is directed to evaluate the

proposed implementation and brief the Committees on its findings at a schedule to be determined in consultation with the Committees.

Project Management.—The agreement notes NNSA's inability to properly estimate costs and timelines for large projects. The NNSA is encouraged to assess and reassess as needed current performance on projects costing more than \$750,000,000 and make appropriate project management changes. When reassessing, the NNSA is encouraged to identify problems in cost and schedule estimates early, and provide updated information to the Committees immediately.

WEAPONS ACTIVITIES

The agreement provides \$17,116,119,000 for Weapons Activities.

The agreement urges the Administration to ensure that military requirements align to what the NNSA can realistically achieve.

University Collaboration.—The agreement notes progress in establishing the Center of Excellence regarding lifetime extension and materials degradation issues, including its expansion to the entire nuclear security enterprise. NNSA is encouraged to continue these efforts, including developing a recruiting pipeline capability across the enterprise, in consultation with institutions that have an existing track record with institutions traditionally underrepresented in the nuclear security industry, including Minority Serving Institutions and Historically Black Colleges and Universities.

Cattle.—The agreement notes the presence of unauthorized and unbranded cattle on Department land near Los Alamos National Laboratory. The cattle pose health, safety, and environmental risks. NNSA is encouraged to remove all unauthorized and unbranded cattle between Water Canyon and Frijoles Canyon not later than 12 months after enactment of this Act. NNSA is directed to provide to the Committees not later than 12 months after enactment of this Act a plan for removal of all unauthorized and unbranded cattle from Department property near Los Alamos National Laboratory, including statutory impediments to that plan.

Plutonium Pit Production.—NNSA is directed to provide to the Committees not later than 180 days after enactment of this Act a plan to establish a two-site Integrated Master Schedule covering the entirety of the work required to produce 80 pits per year and a timeline that NNSA has high confidence will achieve this critical requirement.

NNSA is further directed to provide to the Committees not later than 180 days after enactment of this Act a contingency plan coordinated with the Department of Defense for meeting strategic deterrent requirements based on current pit production timelines.

Plutonium Modernization.—The agreement provides not less than \$10,000,000 for workforce development and training partnerships with Historically Black Colleges and Universities (HBCUs), Hispanic-Serving Institutions, and Tribal Colleges and Universities in South Carolina and New Mexico to support plutonium pit production.

Academic Programs.—The agreement provides \$45,000,000 for the Minority Serving Institution Partnership Program and \$10,000,000 for the Tribal Education Partnership Program.

Inertial Confinement Fusion (ICF) and High Yield.—The agreement provides \$630,000,000 for ICF. Within available funds, the agreement provides not less than \$380,000,000 for the National Ignition Facility (NIF), not less than \$86,100,000 for OMEGA, and not less than \$82,600,000 for the Z Facility. Within funds provided for Facility Operations, the agreement provides not less than \$35,000,000

for NNSA to manage target development and acquisition. The fiscal year 2022 Act directed NNSA to provide to the Committees a strategic plan for recapitalizing, upgrading, and maintaining ICF facilities. NNSA is directed to provide the report to the Committees not later than 30 days after enactment of this Act.

Advanced Simulation and Computing.—The agreement provides \$35,000,000 for research in advanced memory technology and near-memory computing architectures by a U.S.-based manufacturer of very large-scale memory systems and memory semantic storage from 100s of terabytes to petabytes that will inspire advancements in data marshaling technologies that will dramatically improve effective performance for NNSA mission applications.

Contractor Pensions.—The agreement provides \$114,632,000 for payments into the legacy University of California contractor employee defined benefit pension plans, the Requa settlement reached in 2019, and the pension plan at the Savannah River Site.

DEFENSE NUCLEAR NONPROLIFERATION

The agreement provides \$2,490,000,000 for Defense Nuclear Nonproliferation.

NNSA is encouraged to continue to cooperate and support the Office of Nuclear Energy in developing safeguards concepts, policies, and technologies to address the proliferation challenges unique to advanced nuclear reactors. NNSA is further encouraged to cooperate with the national laboratories and industry to support the implementation of "safeguards-by-design" features in advanced nuclear reactors.

The agreement provides \$51,200,000 to pack and ship material from Y-12 to a domestic commercial processor to begin production of limited quantities of HALEU.

The agreement provides \$30,000,000 to remove HALEU from a partner country.

The agreement provides not less than \$25,000,000 for the Green Border Security Initiative within the Nuclear Smuggling Detection and Deterrence program.

The agreement provides \$20,000,000 for the University Consortia for Nonproliferation Research.

NNSA Bioassurance Program.—The agreement reiterates House direction regarding initial and quarterly reporting on Bioassurance activities.

Contractor Pensions.—The agreement provides \$55,708,000 for payments into the legacy UC defined benefit pension plans, the Requa settlement reached in 2019, and the pension plan at the SRS.

NAVAL REACTORS

(INCLUDING TRANSFER OF FUNDS)

The agreement provides \$2,081,445,000 for Naval Reactors.

Naval Reactors Development.—Naval Reactors is directed to provide quarterly briefings to the Committees outlining its research and development program's direction and plan for the future.

FEDERAL SALARIES AND EXPENSES

The agreement provides \$475,000,000 for Federal Salaries and Expenses.

The agreement recognizes the importance of recruiting and retaining the highly skilled personnel needed to meet NNSA's important mission. NNSA is directed to only hire within authorized personnel numbers provided for a given fiscal year, and if NNSA exceeds this authorized amount, then the Administrator must submit to the Committees not later than 30 days a report justifying the excess.

ENVIRONMENTAL AND OTHER DEFENSE ACTIVITIES

DEFENSE ENVIRONMENTAL CLEANUP

The agreement provides \$7,025,000,000 for Defense Environmental Cleanup.

Future Budget Requests.—The Department is directed to include out-year funding projections in the annual budget request by control point for Environmental Management, and an estimate of the total cost and time to complete each site.

Richland.—The agreement provides \$1,006,519,000 for Richland Operations in order to fund the Department's compliance with its legal obligations under the Tri-Party Agreement. As a signatory to the Tri-Party Agreement, the Department is required to meet specific compliance milestones toward the cleanup of the Hanford site. Among other things, the Department committed to provide the funding necessary to enable full compliance with its cleanup milestones. The agreement recognizes that significant progress has been made at the Hanford site, but greater funding will be necessary to meet compliance milestones.

In addition to annual operations funding to support the national historical park mission, the agreement funds B Reactor roof replacement and other preservation efforts as well as all other operations and maintenance requirements for the B Reactor facility.

The Department is directed to support the Hanford Workforce Engagement Center to provide education and advocacy to current and former Hanford employees on all available federal and state compensation programs as well as the Hazardous Materials and Emergency Response facilities, which provide valuable training to Hanford employees.

None of the Richland Operations funds shall be used to carry out activities with the Office of River Protection's tank farms.

Office of River Protection.—The agreement provides \$1,730,408,000 for the Office of River Protection. The Department is reminded that meeting the Consent Decree milestone for operations of Direct Feed Low Activity Waste must remain the Department's top focus within the Office of River Protection. The agreement reiterates House direction regarding low level waste offsite disposal.

The agreement provides funds for full engineering, procurement, and construction work on the High-Level Waste Treatment Facility, for design and engineering of the Pre-Treatment Facility, to ensure compliance with the 2016 Consent Decree and Tri-Party Agreement milestones, and to continue tank waste retrievals.

Idaho National Laboratory.—The agreement notes efforts underway at the Idaho National Laboratory Site to collaborate across all programs and contractors to address respective missions. The agreement encourages the Office of Nuclear Energy, the Office of Environmental Management, and Naval Reactors to continue this integration to ensure existing facilities, capabilities, and workforce are being utilized efficiently and effectively. As part of this integration effort, the Department is directed to develop an Idaho Sitewide Spent Nuclear Fuel Management Plan and shall analyze the use of the Naval Reactors spent fuel packaging facility to support EM's packaging needs in lieu of new construction.

The agreement notes that funding was provided in the fiscal year 2022 Act to pilot a road-ready, dry storage packaging capability and the Department is encouraged to move forward expeditiously with these activities in coordination with the Office of Nuclear Energy. Further, the Department is directed to provide to the Committees not later than 60 days after enactment of this Act a briefing, coordinated between the Offices of Environmental Management and Nuclear Energy, to address elimination of mixed waste streams identified in the Idaho National Laboratory Site Treatment Plan.

Program Direction.—The agreement recognizes the need to prepare the next generation

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

ATOMIC ENERGY DEFENSE ACTIVITIES					
NATIONAL NUCLEAR SECURITY ADMINISTRATION					
WEAPONS ACTIVITIES					
Stockpile Management:					
Stockpile Major Modernization:					
B61 Life Extension Program.....	771,664	672,019	672,019	-99,645	---
W88 Alteration Program.....	207,157	162,057	162,057	-45,100	---
W80-4 Life Extension Program.....	1,080,400	1,122,451	1,122,451	+42,051	---
W80-4 Alteration-SLCM.....	10,000	---	20,000	+10,000	+20,000
W87-1 Modification Program.....	691,031	680,127	680,127	-10,904	---
W93.....	72,000	240,509	240,509	+168,509	---

Subtotal, Stockpile Major Modernization.....	2,832,252	2,877,163	2,897,163	+64,911	+20,000
Stockpile Sustainment:					
B61 Stockpile systems.....	102,679	---	130,664	+27,985	+130,664
W76 Stockpile systems.....	169,220	---	190,577	+21,357	+190,577
W78 Stockpile systems.....	94,766	---	140,209	+45,443	+140,209
W80 Stockpile systems.....	91,669	---	98,318	+6,649	+98,318
B83 Stockpile systems.....	98,456	---	58,930	-39,526	+58,930
W87 Stockpile systems.....	117,297	---	124,541	+7,244	+124,541
W88 Stockpile systems.....	142,841	---	139,934	-2,907	+139,934
Multi-Weapon Systems.....	363,555	---	437,966	+74,411	+437,966

Subtotal, Stockpile Sustainment.....	1,180,483	---	1,321,139	+140,656	+1,321,139

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Stockpile Sustainment.....	---	1,321,139	---	---	-1,321,139
Weapons Dismantlement and Disposition.....	56,000	50,966	56,000	---	+5,034
Production Operations.....	568,941	630,894	630,894	+61,953	---
Nuclear Enterprise Assurance (NEA/NWDA).....	---	48,911	48,911	+48,911	---
Subtotal, Stockpile Management.....	4,637,676	4,929,073	4,954,107	+316,431	+25,034
Production Modernization:					
Primary Capability Modernization:					
Plutonium Modernization:					
Los Alamos Plutonium Operations.....	660,419	767,412	767,412	+106,993	---
04-D-125 Chemistry and metallurgy replacement project LANL.....	---	162,012	138,123	+138,123	-23,889
07-D-220-04 TRU Liquid Waste Facility, LANL.....	---	24,759	24,759	+24,759	---
15-D-302 TA-55 Reinvestment project III, LANL..	---	30,002	30,002	+30,002	---
21-D-512, Plutonium Pit Production Project, LANL	350,000	588,234	588,234	+238,234	---
Subtotal, Los Alamos Plutonium Modernization..	1,010,419	1,572,419	1,548,530	+538,111	-23,889
Savannah River Plutonium Operations.....	128,000	58,300	58,300	-69,700	---
21-D-511, Savannah River Plutonium Processing Facility, SRS.....	475,000	700,000	1,200,000	+725,000	+500,000
Subtotal, Savannah River Plutonium Modernization.....	603,000	758,300	1,258,300	+655,300	+500,000

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Enterprise Plutonium Support.....	107,098	88,993	88,993	-18,105	---
Subtotal, Plutonium Modernization.....	1,720,517	2,419,712	2,895,823	+1,175,306	+476,111
High Explosives & Energetics:					
High Explosives & Energetics.....	68,785	101,380	101,380	+32,595	---
15-D-301 HE Science & Engineering Facility, PX.	---	20,000	20,000	+20,000	---
21-D-510 HE Synthesis, Formulation, and Production, PX.....	---	108,000	108,000	+108,000	---
23-D-516 Energetic Materials Characterization Facility, LANL.....	---	19,000	19,000	+19,000	---
Subtotal, High Explosives & Energetics.....	68,785	248,380	248,380	+179,595	---
Subtotal, Primary Capability Modernization....	1,789,302	2,668,092	3,144,203	+1,354,901	+476,111
Secondary Capability Modernization:.....	488,097	---	536,363	+48,266	+536,363
Uranium Modernization.....	---	297,531	---	---	-297,531
Depleted Uranium Modernization.....	---	170,171	---	---	-170,171
Lithium Modernization.....	---	68,661	---	---	-68,661
06-D-141 Uranium Processing Facility, Y-12.....	---	362,000	362,000	+362,000	---
18-D-690, Lithium processing facility, Y-12.....	---	216,886	216,886	+216,886	---
Subtotal, Secondary Capability Modernization..	488,097	1,115,249	1,115,249	+627,152	---

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Tritium and Domestic Uranium Enrichment:.....	489,017	---	506,649	+17,632	+506,649
Tritium Sustainment and Modernization.....	---	361,797	---	---	-361,797
Domestic Uranium Enrichment.....	---	144,852	---	---	-144,852
18-D-650 Tritium Finishing Facility, SRS.....	---	73,300	73,300	+73,300	---
Subtotal, Tritium & DUE.....	489,017	579,949	579,949	+90,932	---
Non-Nuclear Capability Modernization.....	144,563	123,084	123,084	-21,479	---
Capability based investments.....	---	154,220	154,220	+154,220	---
Subtotal, Production Modernization.....	2,910,979	4,640,594	5,116,705	+2,205,726	+476,111
Stockpile Research, Technology, and Engineering:					
Assessment Science:					
Primary Assessment Technologies.....	150,000	154,507	154,507	+4,507	---
Dynamic Materials Properties.....	130,981	124,366	124,366	-6,615	---
Advanced Diagnostics.....	35,989	31,064	31,064	-4,925	---
Secondary Assessment Technologies.....	84,000	72,104	72,104	-11,896	---
Enhanced Capabilities for Subcritical Experiments.....	215,579	277,225	277,225	+61,646	---
Hydrodynamic & Subcritical Execution Support....	152,845	142,402	142,402	-10,443	---
17-D-640 U1a complex enhancements project, NNSS.	---	53,130	53,130	+53,130	---
Subtotal, Assessment Science.....	769,394	854,798	854,798	+85,404	---
Engineering and Integrated Assessments:					
Archiving & Support.....	45,760	43,950	43,950	-1,810	---
Delivery Environments.....	39,235	37,674	37,674	-1,561	---
Weapons Survivability.....	59,500	93,303	93,303	+33,803	---

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Studies and Assessments.....	---	5,000	5,000	+5,000	---
Aging & Lifetimes.....	87,260	59,682	87,260	---	+27,578
Stockpile Responsiveness.....	50,000	68,742	63,742	+13,742	-5,000
Advanced Certification & Qualification.....	60,330	58,104	58,104	-2,226	---
Subtotal, Engineering and Integrated Assessments.....	342,085	366,455	389,033	+46,948	+22,578
Inertial Confinement Fusion.....	580,000	544,095	630,000	+50,000	+85,905
Advanced Simulation and Computing.....	747,012	742,646	790,000	+42,988	+47,354
Weapon Technology and Manufacturing Maturation:...	292,630	---	286,165	-6,465	+286,165
Surety Technology.....	---	51,497	---	---	-51,497
Weapon Technology Development.....	---	121,330	---	---	-121,330
Advanced Manufacturing Development.....	---	113,338	---	---	-113,338
Subtotal, Weapon Technology and Manufacturing Maturation.....	292,630	286,165	286,165	-6,465	---
Academic Programs.....	111,912	100,499	111,912	---	+11,413
Subtotal, Stockpile Research, Technology, and Engineering.....	2,843,033	2,894,658	3,061,908	+218,875	+167,250
Infrastructure and Operations:					
Operating:					
Operations of facilities.....	1,014,000	1,038,000	1,038,000	+24,000	---
Safety and environmental operations.....	165,354	162,000	162,000	-3,354	---
Maintenance and repair of facilities.....	700,000	680,000	651,617	-48,383	-28,383
Recapitalization:					

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Infrastructure and safety.....	600,000	561,663	561,663	-38,337	---
Capability based investments.....	187,566	---	---	-187,566	---
Planning for Programmatic Construction (Pre-CD-1).....	10,000	---	---	-10,000	---
Subtotal, Recapitalization.....	797,566	561,663	561,663	-235,903	---
Subtotal, Operating.....	2,676,920	2,441,663	2,413,280	-263,640	-28,383
I&O Construction:					
Programmatic Construction:					
06-D-141 Uranium Processing Facility, Y-12.....	600,000	---	---	-600,000	---
07-D-220-04 TRU Liquid Waste Facility, LANL.....	30,000	---	---	-30,000	---
15-D-302 TA-55 Reinvestment project III, LANL....	27,000	---	---	-27,000	---
17-D-640 U1a complex enhancements project, NNSS..	135,000	---	---	-135,000	---
18-D-650 Tritium Finishing Facility, SRS.....	27,000	---	---	-27,000	---
18-D-690, Lithium processing facility, Y-12.....	167,902	---	---	-167,902	---
21-D-510 HE Synthesis, Formulation, and Production, PX.....	44,500	---	---	-44,500	---
22-D-513, Power Sources Capability, SNL.....	13,827	---	---	-13,827	---

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Chemistry and Metallurgy Replacement (CMRR):					
04-D-125 Chemistry and metallurgy replacement project, LANL.....	138,123	---	---	-138,123	---
Subtotal, Programmatic Construction and CMMR..	1,183,352	---	---	-1,183,352	---
Mission Enabling:					
22-D-514 Digital Infrastructure Capability Expansion, LLNL.....	8,000	67,300	67,300	+59,300	---
23-D-517 Electrical Power Capacity Upgrade, LANL	---	24,000	24,000	+24,000	---
23-D-518 Operations & Waste Management Office Building, LANL.....	---	48,500	48,500	+48,500	---
23-D-519 Special Materials Facility, Y-12.....	---	49,500	49,500	+49,500	---
Subtotal, Mission Enabling.....	8,000	189,300	189,300	+181,300	---
Subtotal, I&O Construction:.....	1,191,352	189,300	189,300	-1,002,052	---
Subtotal, Infrastructure and Operations.....	3,868,272	2,630,963	2,602,580	-1,265,692	-28,383
Secure Transportation Asset:					
STA Operations and Equipment.....	213,704	214,367	214,367	+663	---
Program Direction.....	117,060	130,070	130,070	+13,010	---
Subtotal, Secure Transportation Asset.....	330,764	344,437	344,437	+13,673	---

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
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Defense Nuclear Security:					
Defense Nuclear Security (DNS).....	821,090	878,363	868,172	+47,082	-10,191
Construction:					
17-D-710 West End Protected Area Reduction Project, Y-12.....	23,000	3,928	3,928	-19,072	---
Subtotal, Defense Nuclear Security.....	844,090	882,291	872,100	+28,010	-10,191
Information Technology and Cyber Security.....	406,530	445,654	445,654	+39,124	---
Legacy Contractor Pensions (WA).....	78,656	114,632	114,632	+35,976	---
Use of prior year balances.....	---	-396,004	-396,004	-396,004	---
	=====	=====	=====	=====	=====
TOTAL, WEAPONS ACTIVITIES.....	15,920,000	16,486,298	17,116,119	+1,196,119	+629,821
	=====	=====	=====	=====	=====
 DEFENSE NUCLEAR NONPROLIFERATION					
Material Management and Minimization:					
Conversion.....	100,660	153,260	153,260	+52,600	---
Nuclear Material Removal.....	42,100	41,600	55,000	+12,900	+13,400
Material Disposition.....	200,186	256,025	256,025	+55,839	---
Subtotal, Material Management and Minimization....	342,946	450,885	464,285	+121,339	+13,400

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Global Material Security:					
International Nuclear Security.....	79,939	81,155	87,763	+7,824	+6,608
Domestic Radiological Security.....	158,002	---	---	-158,002	---
International Radiological Security.....	95,000	---	---	-95,000	---
Radiological Security.....	---	244,827	260,000	+260,000	+15,173
Nuclear Smuggling Detection and Deterrence.....	198,500	178,095	185,000	-13,500	+6,905
Subtotal, Global Material Security.....	531,441	504,077	532,763	+1,322	+28,686
Nonproliferation and Arms Control.....	184,795	207,656	230,656	+45,861	+23,000
Defense Nuclear Nonproliferation R&D:					
Proliferation Detection.....	269,407	287,283	299,283	+29,876	+12,000
Nuclear Detonation Detection.....	294,500	279,205	279,205	-15,295	---
Nonproliferation Fuels Development.....	20,000	---	20,000	---	+20,000
Nonproliferation Stewardship Program.....	100,329	109,343	125,000	+24,671	+15,657
Forensics R&D.....	45,000	44,414	44,414	-586	---
Subtotal, Defense Nuclear Nonproliferation R&D.....	729,236	720,245	767,902	+38,666	+47,657
NNSA Bioassurance Program.....	---	20,000	20,000	+20,000	---
Nonproliferation Construction:					
18-D-150 Surplus Plutonium Disposition Project, SRS.....	156,000	71,764	71,764	-84,236	---
Subtotal, Nonproliferation Construction.....	156,000	71,764	71,764	-84,236	---

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Nuclear Counterterrorism and Incident Response:					
Emergency Operations.....	14,597	29,896	29,896	+15,299	---
Counterterrorism and Counterproliferation.....	356,185	409,074	440,074	+83,889	+31,000
Subtotal, Nuclear Counterterrorism and Incident Response.....	370,782	438,970	469,970	+99,188	+31,000
Legacy Contractor Pensions (DNN).....	38,800	55,708	55,708	+16,908	---
Use of prior-year balances.....	---	-123,048	-123,048	-123,048	---
TOTAL, DEFENSE NUCLEAR NONPROLIFERATION.....	2,354,000	2,346,257	2,490,000	+136,000	+143,743
NAVAL REACTORS					
Naval Reactors Development.....	640,684	798,590	746,000	+105,316	-52,590
Columbia-class Reactor Systems Development.....	55,000	53,900	53,900	-1,100	---
S8G Prototype Refueling.....	126,000	20,000	20,000	-106,000	---
Naval Reactors Operations and Infrastructure.....	594,017	695,165	668,802	+74,785	-26,363
Program Direction.....	55,579	58,525	58,525	+2,946	---
Construction:					
14-D-901 Spent Fuel Handling Recapitalization project, NRF.....	400,000	397,845	476,798	+76,798	+78,953
22-D-531 KL Chemistry and Radiological Health Building.....	41,620	---	---	-41,620	---

(Amounts in thousands)

	FY 2022 Enacted	FY 2023 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
22-D-532 KL Security Upgrades.....	5,100	---	---	-5,100	---
23-D-533 BL Component Test Complex.....	---	57,420	57,420	+57,420	---
Subtotal, Construction.....	446,720	455,265	534,218	+87,498	+78,953
TOTAL, NAVAL REACTORS.....	1,918,000	2,081,445	2,081,445	+163,445	---
FEDERAL SALARIES AND EXPENSES					
Federal Salaries and Expenses.....	464,000	513,200	491,800	+27,800	-21,400
Use of Prior-Year Balances.....	---	-16,800	-16,800	-16,800	---
TOTAL, FEDERAL SALARIES AND EXPENSES.....	464,000	496,400	475,000	+11,000	-21,400
TOTAL, NATIONAL NUCLEAR SECURITY ADMINISTRATION...	20,656,000	21,410,400	22,162,564	+1,506,564	+752,164
DEFENSE ENVIRONMENTAL CLEANUP					
Closure Sites Administration.....	3,987	4,067	4,067	+80	---
Richland:					
River Corridor and Other Cleanup Operations.....	254,479	221,000	279,085	+24,606	+58,085
Central Plateau Remediation.....	650,926	672,240	695,071	+44,145	+22,831
RL Community and Regulatory Support.....	8,621	10,013	10,013	+1,392	---
Construction:					

1844

1

TITLE III

2

DEPARTMENT OF ENERGY

3

ENERGY PROGRAMS

4

NUCLEAR ENERGY

5

For an additional amount for “Nuclear Energy”,

6

\$300,000,000, to remain available until expended: *Pro-*

7

vided, That of the amount provided under this heading

8

in this Act, \$100,000,000 shall be for Advanced Nuclear

9

Fuel Availability: *Provided further*, That of the amount

10

provided under this heading in this Act, \$60,000,000 shall

11

be to carry out the demonstrations of the Advanced Reac-

12

tor Demonstration Program: *Provided further*, That of the

13

amount provided under this heading in this Act,

14

\$20,000,000 shall be to carry about activities for the Na-

15

tional Reactor Innovation Center: *Provided further*, That

16

of the amount provided under this heading in this Act,

17

\$120,000,000 shall be to carry about activities for the

18

Risk Reduction for Future Demonstrations.

19

ATOMIC ENERGY DEFENSE ACTIVITIES

20

NATIONAL NUCLEAR SECURITY

21

ADMINISTRATION

22

DEFENSE NUCLEAR NONPROLIFERATION

23

For an additional amount for “Defense Nuclear Non-

24

proliferation”, \$126,300,000, to remain available until ex-

1 pending, to respond to the situation in Ukraine and for
2 related expenses.

3 GENERAL PROVISION—THIS TITLE

4 SEC. 1301. (a) Of the unobligated balances from
5 amounts deposited in the SPR Petroleum Account pursu-
6 ant to section 167(b)(3) of the Energy Policy and Con-
7 servation Act (42 U.S.C. 6247(b)(3)), \$10,395,000,000 is
8 hereby permanently rescinded not later than September
9 30, 2023.

10 (b) Section 403(a) of the Bipartisan Budget Act of
11 2015 (Public Law 114–74) is amended by adding “and”
12 after the semicolon in paragraph (5), striking the semi-
13 colon in paragraph (6) and inserting a period, and striking
14 paragraphs (7) and (8).

15 (c) Section 32204(a)(1) of the FAST Act (Public
16 Law 114–94) is amended by adding “and” after the semi-
17 colon in subparagraph (A), striking the semicolon in sub-
18 paragraph (B) and inserting a period, and striking sub-
19 paragraphs (C) and (D).

20 (d) Section 30204(a)(1) of the Bipartisan Budget Act
21 of 2018 (Public Law 115–123) is amended by striking the
22 word “Reserve” and everything that follows and adding
23 the following: “Reserve 30,000,000 barrels of crude oil
24 during the period of fiscal years 2022 through 2027.”.