



U.S. DEPARTMENT OF  
**ENERGY**

**Fiscal Year 2025  
Report to Congress:  
Laboratory Directed  
Research and  
Development at DOE  
National Laboratories**

**Report to Congress  
March 2026**

**United States Department of Energy  
Washington, DC 20585**

## Message from the Chief Financial Officer

As required by section 3136 of the National Defense Authorization Act for Fiscal Year (FY) 1997 (Public Law 104-201; 50 U.S.C. 2793) and requested in the Conference Report accompanying the Department of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 2001, (H. Rept. 106-988), this is the Department of Energy's (DOE) Report on Laboratory Directed Research and Development (LDRD), Plant Directed Research and Development (PDRD), and Site Directed Research and Development (SDRD) for FY 2025.

The report provides FY 2025 LDRD, PDRD, and SDRD expenditures by laboratory, weapons production plant, and site. In FY 2025, there were 2,648 LDRD projects with a total cost of \$1.01 billion; 389 PDRD projects with a total cost of \$114.18 million; and 58 SDRD projects with a total cost of \$15.64 million. This includes LDRD at the National Energy Technology Laboratory (NETL), in accordance with section 969C of the Energy Policy Act of 2005, added by section 4006(a) of Division Z of the Continuing Appropriations Act, 2021 (Public Law 116-260).

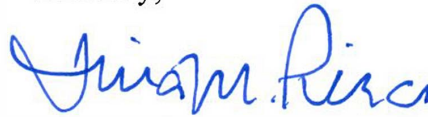
Pursuant to statutory requirements, this report is being provided to members of Congress:

- **The Honorable Tom Cole**  
Chairman, House Committee on Appropriations
- **The Honorable Rosa L. DeLauro**  
Ranking Member, House Committee on Appropriations
- **The Honorable Chuck Fleischmann**  
Chairman, Subcommittee on Energy and Water Development, and Related Agencies  
House Committee on Appropriations
- **The Honorable Marcy Kaptur**  
Ranking Member, Subcommittee on Energy and Water Development, and Related Agencies  
House Committee on Appropriations
- **The Honorable Susan Collins**  
Chair, Senate Committee on Appropriations
- **The Honorable Patty Murray**  
Vice Chair, Senate Committee on Appropriations
- **The Honorable John Kennedy**  
Chair, Subcommittee on Energy and Water Development  
Senate Committee on Appropriations

- **The Honorable Patty Murray**  
Ranking Member, Subcommittee on Energy and Water Development  
Senate Committee on Appropriations
- **The Honorable Roger Wicker**  
Chairman, Senate Committee on Armed Services
- **The Honorable Jack Reed**  
Ranking Member, Senate Committee on Armed Services
- **The Honorable Deb Fischer**  
Chairman, Subcommittee on Strategic Forces  
Senate Committee on Armed Services
- **The Honorable Angus King**  
Ranking Member, Subcommittee on Strategic Forces  
Senate Committee on Armed Services
- **The Honorable Mike Rogers**  
Chairman, House Committee on Armed Services
- **The Honorable Adam Smith**  
Ranking Member, House Committee on Armed Services
- **The Honorable Scott DesJarlais**  
Chairman, Subcommittee on Strategic Forces  
House Committee on Armed Services
- **The Honorable Seth Moulton**  
Ranking Member, Subcommittee on Strategic Forces  
House Committee on Armed Services

If you have any questions or need additional information, please contact Mr. Jared S. Hatch, Office of External Coordination for Appropriations, Office of Budget, Office of the Chief Financial Officer, at (202) 329-5503, or Mr. Scott Marks, Deputy Assistant Secretary for Senate Affairs or Mr. Michael Inguanta, Deputy Assistant Secretary for House Affairs, Office of Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,



Tina M. Pierce  
Chief Financial Officer

## Executive Summary

The Laboratory Directed Research and Development (LDRD) Program at the Department of Energy's (DOE) National Laboratories, and analogous programs at DOE such as the nuclear weapons production Plant Directed Research and Development (PDRD) and Nevada National Security Site Directed Research and Development (SDRD), are key components of the DOE mission to promote scientific and technical (S&T) innovation that advances the economic, energy, environmental, and national security of the Nation.

This report provides DOE's FY 2025 expenditures for LDRD, PDRD, and SDRD and certifies that individual projects or activities are charged within the statutory maximum authorized for these programs. It also affirms that every LDRD activity derived from funds of other agencies is conducted in a manner that supports S&T development that benefits the programs of the sponsoring agencies and is consistent with the Appropriations Acts that provided funds to those agencies.

DOE's National Laboratories LDRD projects address the Nation's energy, environmental, and security challenges. LDRD is an institutional investment, part of the overhead rate charged by a DOE National Laboratory for work performed by the laboratory. LDRD is accrued in accordance with cost accounting standards and the terms of the laboratory management and operating contracts. FY 2025 LDRD projects were relevant to defense, non-defense, and homeland security mission categories. In FY 2025, the Department's Designated Financial Officers certified that the 2,648 LDRD projects, totaling \$1.01 billion, which represents 4.25 percent of total cost base at the 17 laboratories, were in compliance with statutory financial requirements. This includes LDRD at the National Energy Technology Laboratory (NETL), in accordance with section 969C of the Energy Policy Act of 2005, added by section 4006(a) of Division Z of the Continuing Appropriations Act, 2021 (Public Law 116-260).

Section 308 (50 U.S.C. 2791a) of Division C of the Omnibus Appropriations Act, 2009 (Public Law 111-8), provides that the Secretary of Energy may authorize a specific amount not to exceed four percent of the annually appropriated funds made available for activities at government-owned, contractor-operated laboratories for both PDRD and SDRD. In FY 2025, DOE's Plants and Site expended \$114.18 million and \$15.64 million through the PDRD and SDRD programs, respectively, to fund S&T projects with the potential to enhance their mission-related manufacturing capabilities, operations, and core technical competencies. The Department's Designated Financial Officers certified these programs were funded within the authorized amount.

The cost base by DOE program offices or Strategic Partnership Projects (SPP) for the FY 2025 LDRD, PDRD, and SDRD funding is provided at **Appendix C**. DOE continues to manage the LDRD program in accordance with all congressional requirements. DOE will continue to review the management and administrative procedures and funding levels at each of the relevant laboratories.



# FY 2025 REPORT ON LABORATORY DIRECTED RESEARCH AND DEVELOPMENT<sup>1</sup> AT THE NATIONAL LABORATORIES

## Table of Contents

I.	Legislative Language.....	2
II.	Background.....	2
III.	FY 2025 LDRD Financial Reporting.....	3
	Table 1. FY 2025 Laboratory Costs and LDRD Costs at DOE Laboratories.....	4
IV.	LDRD and Strategic Partnership Projects .....	5
IV.	FY 2025 PDRD and SDRD Programs – Financial Reporting.....	6
	Table 2. – FY 2025 PDRD Expenditures .....	6
	Table 3. – FY 2025 SDRD Expenditures .....	7
V.	Conclusion.....	7
VI.	Secretarial Affirmation .....	8
	Appendix A. Statutory Report Language Requirements .....	9
	Appendix B. Conference Report Language Requirements.....	16
	Appendix C. Cost Base by Program Offices or SPP .....	19
	Appendix D. FY 2025 Project Listing.....	20

---

<sup>1</sup> This report also includes Site Directed Research and Development and Plant Directed Research and Development in accordance with all statutory report language requirements.

## I. Legislative Language

This report responds to section 3136 of the National Defense Authorization Act for FY 1997 (Public Law 104-201; 50 U.S.C. 2793). It requires “a report [annually] on the funds expended during the preceding fiscal year on [LDRD] activities [...] to permit an assessment of the extent to which such activities support the national security mission of the Department of Energy.”

It also responds to the Conference Report (H. Rept. 106-988) accompanying the Department of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 2001, which requested that the Department of Energy (DOE) Chief Financial Officer develop and implement a financial accounting report of Laboratory Directed Research and Development expenditures by laboratory and weapons production plant.

This report also addresses the Conference Report (H. Rept. 107-258) that accompanied the Energy and Water Development Appropriations Act, 2002. It requested that the Secretary of Energy affirm in the annual Report to Congress on LDRD expenditures that every LDRD activity derived from funds of other agencies is conducted in a manner that supports science and technology development that benefits the programs of the sponsoring agencies and is consistent with the Appropriations Acts that provided funds to those agencies.

The full list of statutory and legislative report language requirements is in **Appendices A and B**.

## II. Background

Section 31 of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2051), directs DOE to ensure the continued conduct of research and development (R&D) and assist in the acquisition of the existing and growing body of theoretical and practical knowledge in the fields of nuclear processes, the theory and production of atomic energy, the protection of health and promotion of safety during research and production, and the utilization of special nuclear materials, atomic energy and radioactive materials for medical, biological, agricultural, health, military, or industrial or commercial uses that generate useful energy and preserve and enhance the environment by developing more efficient methods to meet the Nation’s energy needs. This mission was initially the responsibility of the Atomic Energy Commission (AEC), then that of the Energy Research and Development Administration, and subsequently DOE.

The AEC recognized that a certain amount of work should remain at the laboratories’ discretion to maintain laboratories’ intellectual vitality and ability to respond immediately to developments at the cutting edge of science and technology, as well as to retain the best scientific, technological, and managerial talent. From inception, the AEC and successor agencies made available certain amounts of research funding, derived from the ideas of National Laboratory personnel.

In 1985, in response to the recommendations of national panels and commissions, the Department established the Exploratory Research and Development Program to formalize the practice of providing National Laboratories with the means to conduct laboratory-initiated R&D.<sup>2</sup> Six years later, DOE renamed the program LDRD and formally established department-wide policies for implementation at the DOE National Laboratories. Today, the LDRD Program at the DOE National Laboratories and analogous programs at the Department’s nuclear weapons production plants (Plant Directed Research and Development, or PDRD) and Nevada National Security Site (NNSS) (Site Directed Research and Development, or SDRD), are critical components of the DOE mission to promote scientific and technical (S&T) innovations that advance the economic, energy, and national security of the United States.

Every LDRD activity conducted at DOE National Laboratories is governed by DOE policy (DOE Order 413.2C, *Laboratory Directed Research and Development*), which provides guidance on effective management and oversight of the LDRD Program, while supporting the laboratories’ pursuit of innovative, self-selected projects in support of the DOE mission. DOE’s LDRD policy is consistent with the Department’s management practices for R&D activities including annual planning and reporting requirements, as well as program and peer reviews to verify the investments reflect innovative, quality research projects. DOE reviews and concurs with each proposed LDRD project before a laboratory commences work to guarantee the project complies with DOE policy. The remainder of this report responds to the LDRD, PDRD, and SDRD Program financial reporting requirements required by law (**Appendices A and B** list the statutory and report language requirements).

### **III. FY 2025 LDRD Financial Reporting**

Table 1 enumerates the LDRD rate charged by a laboratory. In accordance with section 311 of Division D of the Consolidated and Further Continuing Appropriations Act, 2015, (Public Law 113-235) and DOE Order 413.2 C, *Laboratory Directed Research and Development*, individual projects and activities are charged within the statutory maximum authorized amount for LDRD by the Secretary of Energy. The total cost figures in the table represent a laboratory’s total operating and capital equipment costs, less exemptions, and LDRD. DOE’s Designated Financial Officers certify that each laboratory is in compliance with statutory financial requirements, and to the accuracy of the total cost figures.

---

<sup>2</sup> See, among others, the *Report of the White House Science Council*, Office of Science and Technology Policy, Executive Office of the President, Washington, DC, May 1983; and Guidelines, Energy Research Advisory Board, December 1985.

**Table 1.** FY 2025 Laboratory Costs and LDRD Costs at DOE Laboratories

Laboratory	DOE Costs (\$M)	SPP Costs (\$M)	Total Costs (\$M)	LDRD Total Costs (\$M)	LDRD Rate	Projects
Ames Laboratory	65.86	2.30	68.16	2.67	3.92%	16
Argonne National Laboratory	1,084.56	121.14	1,205.70	34.21	2.84%	191
Brookhaven National Laboratory	695.65	33.65	729.30	26.01	3.57%	96
FERMI National Accelerator Laboratory	398.74	8.80	407.54	3.03	0.74%	28
Idaho National Laboratory	1,368.83	598.32	1,967.15	57.71	2.93%	156
L. Berkeley National Laboratory	1,061.98	146.22	1,208.20	29.33	2.43%	121
L. Livermore National Laboratory	2,545.77	439.88	2,985.65	176.78	5.92%	247
Los Alamos National Laboratory	3,823.09	278.30	4,101.39	227.31	5.54%	443
National Energy Technology Laboratory	269.77	5.63	275.40	3.12	1.13%	33
National Renewable Energy Laboratory	777.23	113.92	891.15	34.33	3.85%	138
Oak Ridge National Laboratory	1,766.91	360.18	2,127.09	65.35	3.07%	217
Pacific Northwest National Laboratory	1,161.50	421.08	1,582.58	47.35	2.99%	229
Princeton Plasma Physics Laboratory	146.11	4.40	150.51	8.88	5.90%	43
Sandia National Laboratories	3,437.86	1,404.80	4,842.66	265.38	5.48%	536
Savannah River National Laboratory	333.58	22.22	355.80	10.54	2.96%	71
SLAC National Accelerator Laboratory	534.75	44.27	579.02	11.93	2.06%	68
Thomas Jefferson National Accelerator Facility	206.76	3.08	209.84	2.91	1.39%	15
<b>Total LDRD</b>	<b>19,678.95</b>	<b>4,008.19</b>	<b>23,687.14</b>	<b>1,006.84</b>	<b>4.25%</b>	<b>2,648</b>

LDRD is part of the overhead rate charged by a laboratory, which funds cutting-edge creative work that benefits laboratory programs. Consistent with Public Law 113-235, LDRD is accumulated through a percentage of the total cost, excluding LDRD and line-item construction, for work performed by a laboratory. LDRD is accrued in accordance with cost accounting standards and with the terms of the laboratory management and operating contracts.

The total FY 2025 LDRD program cost at the National Laboratories was \$1.01 billion, which represents 4.25 percent of total cost base at these laboratories. This includes minimal credits or costs for projects, which were completed in previous FYs.

Each National Laboratory conducted a review of the FY 2025 LDRD projects to determine the relevance of those projects to the missions of the various laboratory customers that provided funds for LDRD. For this review, laboratory consumers are considered in three mission categories – defense, non-defense, and homeland security (i.e., Department of Homeland Security [DHS]). The review concluded that FY 2025 LDRD projects were relevant to one, two, or three mission categories. The review also indicated that funds contributed by each consumer category were invested in LDRD projects relevant to the respective mission areas at a level at least equal to the LDRD funds provided by the customers.

In accordance with section 4006 of Division Z of the Consolidated Appropriations Act, 2021 (Public Law 116-260), which added section 969C of the Energy Policy Act of 2005 (42 U.S.C. 16298c), an additional DOE National Laboratory, the National Energy Technology Laboratory (NETL), received LDRD authority. NETL began incurring costs for their selected LDRD projects in FY 2022 and therefore is included in this report.

## IV. LDRD and Strategic Partnership Projects

Strategic Partnership Projects (SPP) funding from non-DOE Federal and non-Federal resources promotes, and where possible accelerates, scientific discovery and deploys solutions that benefit both DOE and sponsoring entity missions and goals. SPP plays an important role in the laboratories' efforts to develop, strengthen, and sustain unique S&T capabilities deemed critical by the government and, in most cases, represents a coordinated set of activities that seek to address large and complex national needs. This use of DOE facilities, personnel, and capabilities for SPP activities provides the laboratories an opportunity to deliver national solutions in a cost-effective manner.

Congress provided language in Conference Report (H. Rept.107-258) accompanying the Energy and Water Development Appropriations Act, 2002, which requested that DOE notify other Federal agencies that a portion of SPP funding will be used to fund LDRD projects. With the creation of DHS in the Homeland Security Act of 2002, Congress enacted a requirement that LDRD funding provided by DHS must benefit DHS missions. In response to the FY 2002 Conference Report, the Secretary of Energy issued guidance requiring every LDRD laboratory to notify other Federal agencies of LDRD charges before funding work at the laboratories. Each SPP proposal DOE provides to a Federal agency must indicate the amount of LDRD charges that the project will collect. The proposal also serves to notify the sponsor that, by providing funding, the agency is acknowledging that LDRD activities are beneficial to the organization and are consistent with the appropriation acts that provided funds to the agency.

In February 2003, the Secretary of Energy and the Secretary of Homeland Security entered into a Memorandum of Agreement to implement key provisions of the Homeland Security Act. To support DHS efforts, the Deputy Secretary of Energy issued DOE Order 484.1, *Reimbursable Work for the Department of Homeland Security*. The Order provides information on the process by which DHS may place orders for reimbursable work activities at the DOE laboratories. In the Order, there are provisions for notification of LDRD charges in the cost proposal, as well as requirements for acknowledgements regarding the benefits of LDRD before final approval.

In December 2003, the DOE Office of the Chief Financial Officer provided other Federal agency Chief Financial Officers who are customers and sponsors of work at the Department's laboratories with applicable guidance and policy documents to explain the Department's processes. Collectively, the implementation and execution of these policies provide the basis for the Secretary's affirmation that the LDRD Program is managed in accordance with the congressional requirements cited above.

## V. FY 2025 PDRD and SDRD Programs – Financial Reporting

### Plant Directed Research and Development (PDRD) – FY Expenditures

Section 308 (50 U.S.C. 2791a) of Division C of the Omnibus Appropriations Act, 2009 (Public Law 111-8), provides that the Secretary of Energy may authorize a specific amount not to exceed four percent of the annually appropriated funds made available for activities at government-owned, contractor-operated laboratories for PDRD. Table 2 shows the PDRD rate charged by site. The total cost figures in the table represent a plant’s total operating and capital equipment costs, less exemptions<sup>3</sup>, and PDRD. DOE’s Designated Financial Officers certify that each plant is in compliance with statutory financial requirements, and to the accuracy of the total cost figures.

In accordance with section B (50 U.S.C. 2793) Report on the Use of Funds for Certain Research and Development Purposes, starting in 2023, the Secretary is now required to submit a report that includes an explanation of how each nuclear weapons production facility plans to increase the availability and utilization of funds for PDRD. To address this, DOE plants deployed a new process using pilot projects that prioritized technology applications to reduce program costs and improve manufacturing processes. The plants intend that these PDRD projects help with the recruitment and retention of essential personnel in engineering and manufacturing disciplines while advancing innovative solutions that solve critical national security challenges.

In accordance with the FY 2023 PDRD Guidance issued by Federal leadership to the production facilities, proposals for PDRD funding must engage in research, development, and demonstration activities with respect to engineering and manufacturing capabilities related to the National Nuclear Security Administration (NNSA) missions. Project activities must relate to the facilities’ national security mission and may include the replacement of obsolete or aging design and manufacturing technologies, the development of innovative agile manufacturing techniques and processes, and the training, recruitment, or retention of essential personnel in critical engineering and manufacturing disciplines.

**Table 2.** FY 2025 PDRD Expenditures

Plant	DOE Costs (\$M)	SPP Costs (\$M)	Total Costs (\$M)	PDRD Total Costs (\$M)	PDRD Rate	Projects
Kansas City National Security	1,481.27	684.04	2,165.31	56.07	2.59%	254
Pantex Plant	1,232.98	0.00	1,232.98	15.26	1.24%	52
Savannah River Site	609.10	0.00	609.10	2.84	0.47%	12
Y-12 National Security	1,656.25	0.00	1,656.25	40.01	2.42%	71
<b>Total PDRD</b>	<b>4,979.60</b>	<b>684.04</b>	<b>5,663.64</b>	<b>114.18</b>	<b>2.02%</b>	<b>389</b>

<sup>3</sup> For example, SPP work at the Pantex Plant, the Savannah River Site, and the Y-12 National Security Complex is excluded from the allocation base for PDRD.

**Site Directed Research and Development (SDRD) - FY Expenditures**

Section 308 (50 U.S.C. 2791a) of Division C of the Omnibus Appropriations Act, 2009 (Public Law 111-8), provides that the Secretary of Energy may authorize a specific amount not to exceed four percent of the annually appropriated funds made available for activities at government-owned, contractor-operated laboratories for SDRD. Table 3 enumerates the SDRD rate charged by the Nevada National Security Site. The total cost figures in the table represent the site’s total operating and capital equipment costs, less exemptions, and SDRD. DOE’s Designated Financial Officers certify that the site is in compliance with statutory financial requirements, and to the accuracy of the total cost figures.

**Table 3.** FY 2025 SDRD Expenditures

Site	DOE Costs (\$M)	SPP Costs (\$M)	Total Costs (\$M)	SDRD Total Costs (\$M)	SDRD Rate	Projects
Nevada National Security Site	657.45	39.18	696.63	15.64	2.25%	58
<b>Total SDRD</b>	<b>657.45</b>	<b>39.18</b>	<b>696.63</b>	<b>15.64</b>	<b>2.25%</b>	<b>58</b>

**VI. Conclusion**

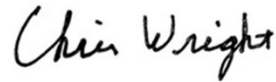
The Department continues to manage the LDRD, PDRD, and SDRD programs in accordance with all congressional requirements. LDRD, PDRD, and SDRD provide the laboratories with the means to explore pioneering and cutting-edge research concepts to support current and future DOE, DOE/NNSA, and other national missions. LDRD, PDRD, and SDRD research projects bridge disciplinary boundaries to find solutions to science and technology challenges and build capabilities that can support multiple cross-cutting interests. DOE has, and will continue to, review the management and administrative procedures and funding levels at each of the relevant laboratories for compliance with statutory requirements.

## VII. Secretarial Affirmation

*As required by section 3136 of the National Defense Authorization Act for FY 1997 (Public Law 104-201; 50 U.S.C. 2793) and requested in the Conference Report accompanying the Energy and Water Development Appropriations Act, 2002, (H. Rept. 107-258), the following is the affirmation by the Secretary of the Department of Energy (DOE) on the **Report on Laboratory Directed Research and Development (LDRD) for FY 2025.***

*Based on the information and acknowledgments provided to the Department and DOE contractors by the Federal agencies that are funding LDRD activities in FY 2025, I affirm that every LDRD activity derived from funds of other agencies is conducted in a manner that supports science and technology development that benefits the programs of the sponsoring agencies.*

*Sincerely,*



*Chris Wright  
Secretary of Energy*

## Appendix A. Statutory Report Language Requirements

**Public Law 117-263, section 3116(a) of the National Defense Authorization Act for Fiscal Year 2023** Section 4812 of the Atomic Energy Defense Act (50 USC 2792) is amended by adding at the end the following new subsection: “(c) LIMITATION ON USE OF FUNDS FOR OVERHEAD.—A national security laboratory may not use funds made available under section 4811(c) to cover the costs of general and administrative overhead for the laboratory.”

**Public Law 117-263, Section 3116(b) of the National Defense Authorization Act for Fiscal Year 2023, Repeal of Pilot Program** section 3119 of the National Defense Authorization Act for FY 2017 (Public Law 114-328; 50 USC 2791 note) is repealed.

**Public Law 117-81, section 3134 of the National Defense Authorization Act for Fiscal Year 2023, Report on Plant-Directed Research and Development (p. 691)** section 4812A of the Atomic Energy Defense Act (50 U.S.C. 2793) is amended—(1) by redesignating subsections (b) and (c) as subsections (c) and (d), respectively; and (2) by inserting after subsection (a) the following new subsection (b): “(b) PLANT-DIRECTED RESEARCH AND DEVELOPMENT.—“(1) IN GENERAL.—The report required by subsection (a) shall include, with respect to plant-directed research and development, the following: “(A) A financial accounting of expenditures for such research and development, disaggregated by nuclear weapons production facility. “(B) A breakdown of the percentage of research and development conducted by each such facility that is plant-directed research and development. “(C) An explanation of how each such facility plans to increase the availability and utilization of funds for plant-directed research and development. “(2) PLANT-DIRECTED RESEARCH AND DEVELOPMENT DEFINED.—In this subsection, the term ‘plant-directed research and development’ means research and development selected by the director of a nuclear weapons production facility.”

**OMB Circular No. A-11, 2023**, Section 84.2(c), defines research and experimental development activities as “creative and systematic work undertaken in order to increase the stock of knowledge . . . and to devise new applications using available knowledge.”

**Public Law 116-283, section 3162 of the National Defense Authorization Act for Fiscal Year 2021** SEC. 3162. EXTENSION OF PILOT PROGRAM ON UNAVAILABILITY FOR OVERHEAD COSTS OF AMOUNTS SPECIFIED FOR LABORATORY-DIRECTED RESEARCH AND DEVELOPMENT. Section 3119 of the National Defense Authorization Act for FY 2017 (Public Law 114–328; 50 U.S.C. 2791 note) is amended— (1) in subsection (c)(2), by striking “four” and inserting “nine”; and (2) in subsection (d), by striking “February 15, 2020” and inserting “February 15, 2025”.

**Public Law 116-260, Consolidated Appropriation Act, 2021** Division Z, Energy Act of 2020 SEC. 4006. NATIONAL ENERGY TECHNOLOGY LABORATORY REFORMS. (a) IN GENERAL.—Subtitle F of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16291 et seq.) is further amended by adding at the end the following:

**Section 969C, National Energy Technology Laboratory Reforms (pp. 1365-1366)**

(b) LABORATORY-DIRECTED RESEARCH AND DEVELOPMENT.—“(1) IN GENERAL.—Beginning in FY 2021, the National Energy Technology Laboratory shall be eligible for laboratory-directed research and development funding. “(2) AUTHORIZATION OF FUNDING.—“(A) IN GENERAL.—Each fiscal year, of funds made available to the National Energy Technology Laboratory, the Secretary may deposit an amount, not to exceed the rate made available to the National Laboratories for laboratory-directed research and development, in a special fund account. “(B) USE.—Amounts in the account under subparagraph (A) shall only be available for laboratory-directed research and development. “(C) REQUIREMENTS.—The account under subparagraph (A)—“(i) shall be administered by the Secretary; “(ii) shall be available without fiscal year limitation; and “(iii) shall not be subject to appropriation. “(3) REQUIREMENT.—The Director shall carry out laboratory-directed research and development activities at the National Energy Technology Laboratory consistent with Department of Energy Order 413.2C, dated August 2, 2018, (or a successor order). “(4) ANNUAL REPORT ON USE OF AUTHORITY.—Annually, the Secretary shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report on the use of the authority provided under this subsection during the preceding fiscal year. “(c) LABORATORY OPERATIONS.—The Secretary shall delegate human resources operations of the National Energy Technology Laboratory to the Director to assist in carrying out this section. “(d) REVIEW.—Not later than 2 years after the date of enactment of the Energy Act of 2020, the Secretary shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report assessing the management and research activities of the National Energy Technology Laboratory, which shall include—“(1) an assessment of the quality of science and research at the National Energy Technology Laboratory, relative to similar work at other National Laboratories; “(2) a review of the effectiveness of authorities provided in subsections (a) and (b); and “(3) recommendations for policy changes within the Department and legislative changes to provide the National Energy Technology Laboratory with the necessary tools and resources to advance the research mission of the National Energy Technology Laboratory.” (b) TECHNICAL AMENDMENT.—The table of contents for the Energy Policy Act of 2005 (Public Law 109–58; 119 Stat. 600) is further amended by adding at the end of the items relating to subtitle F of title IX the following: “Sec. 969C. National energy technology laboratory reforms.”

**Public Law 116-92, Section 3118 of the National Defense Authorization Act for Fiscal Year 2020** SEC. 3118. EXTENSION AND MODIFICATION OF PILOT PROGRAM ON UNAVAILABILITY FOR OVERHEAD COSTS OF AMOUNTS SPECIFIED FOR LABORATORY-DIRECTED RESEARCH AND DEVELOPMENT. Section 3119 of the National Defense Authorization Act for FY 2017 (Public Law 114–328; 50 U.S.C. 2791 note) is amended— (1) in subsection (c)(2), by striking “three” and inserting “four”; and (2) in

subsection (d)— (A) by striking “Before the termination under subsection (c)(2) of the pilot program required by subsection (a)” and inserting “Not later than February 15, 2020”; and (B) by inserting before the end period the following: “, including effects on laboratory-directed research and development and other programs”.

**Public Law 114-328, Section 3119 of the National Defense Authorization Act for Fiscal Year 2017 – Pilot Program on Unavailability for Overhead Costs of Amounts Specified for Laboratory Directed Research and Development**

- (a) IN GENERAL.—The Secretary of Energy shall establish a pilot program under which each national security laboratory (as defined in section 4002 of the Atomic Energy Defense Act (50 U.S.C. 2501)) is prohibited from using funds described in subsection (b) to cover the costs of general and administrative overhead for the laboratory.
- (b) FUNDS DESCRIBED.—The funds described in this subsection are funds made available for a national security laboratory under section 4811(c) of the Atomic Energy Defense Act (50 U.S.C. 2791(c)) for laboratory-directed research and development.
- (c) DURATION.—The pilot program required by subsection (a) shall— (1) take effect on the first day of the first fiscal year beginning after the date of the enactment of this Act, and (2) terminate on the date that is three years after the day described in paragraph (1).
- (d) REPORT REQUIRED.—Before the termination under subsection (c)(2) of the pilot program required by subsection (a), the Administrator for Nuclear Security shall submit to the congressional defense committees a report that assesses the costs, benefits, risks, and other effects of the pilot program.

**Senate Report 114-236, as adopted by the explanatory statement for the Consolidated Appropriations Act of 2017** Directs DOE to ensure that laboratory operating contractors do not allocate general and administrative overhead onto LDRD.

**Public Law 114-92, Section 3115 of the National Defense Authorization Act for Fiscal Year 2016 FUNDING OF LABORATORY-DIRECTED RESEARCH AND DEVELOPMENT PROGRAMS.**

- (a) IN GENERAL.—Section 4811(c) of the Atomic Energy Defense Act (50 U.S.C. 2791(c)) is amended—
- (1) by striking “to such laboratories” and inserting “to a national security laboratory”;
- (2) by striking “not to exceed 6 percent” and inserting “of not less than 5 percent and not more than 7 percent”; and
- (3) By striking “by such laboratories” and inserting “by the laboratory.”
- (b) BRIEFING REQUIRED.—Not later than February 28, 2016, the Administrator for Nuclear Security shall provide a briefing to the congressional defense committees on—
- (1) all recent or ongoing reviews of the laboratory-directed research and development program, including such reviews initiated by the Secretary of Energy;
- (2) costs and accounting practices associated with laboratory-directed research and development; and
- (3) how laboratory-directed research and development projects support the mission of the National Nuclear Security Administration.

**Public Law 113-235, Section 311 of Division D of the Consolidated and Further Continuing Appropriations Act, 2015** Of the funds authorized by the Secretary of Energy for laboratory directed research and development, no individual program, project, or activity funded by this or any subsequent Act making appropriations for Energy and Water Development for any fiscal year may be charged more than the statutory maximum authorized for such activities: Provided, That this section shall take effect not earlier than October 1, 2015.

**Public Law 113-76, Section 309 of Division D of the Consolidated Appropriations Act, 2014** Notwithstanding section 307 of Public Law 111-85, of the funds made available by the Department of Energy for activities at Government-owned, contractor-operated laboratories funded in this or any subsequent Energy and Water Development Appropriations Act for any fiscal year, the Secretary may authorize a specific amount, not to exceed 6 percent of such funds, to be used by such laboratories for laboratory-directed research and development.

**Public Law 111-85, Section 307 of the Energy and Water Development and Related Agencies Appropriations Act, 2010** Of the funds made available by the Department of Energy for activities at Government-owned, contractor-operated laboratories funded in this Act or subsequent Energy and Water Development Appropriations Acts, the Secretary may authorize a specific amount, not to exceed 8 percent of such funds, to be used by such laboratories for laboratory-directed research and development: Provided, That the Secretary may also authorize a specific amount not to exceed 4 percent of such funds, to be used by the plant manager of a covered nuclear weapons production plant or the manager of the Nevada Site Office for plant or site directed research and development.

**Public Law 111-8, Section 308 of Division C of the Omnibus Appropriations Act, 2009** LABORATORY DIRECTED RESEARCH AND DEVELOPMENT. Of the funds made available by the Department of Energy for activities at government-owned, contractor-operated laboratories funded in this Act or subsequent Energy and Water Development Appropriations Acts, the Secretary may authorize a specific amount, not to exceed 8 percent of such funds, to be used by such laboratories for laboratory-directed research and development: Provided, That the Secretary may also authorize a specific amount not to exceed 4 percent of such funds, to be used by the plant manager of a covered nuclear weapons production plant or the manager of the Nevada Site Office for plant or site directed research and development: Provided further, That notwithstanding Department of Energy order 413.2A, dated January 8, 2001, beginning in fiscal year 2006 and thereafter, all DOE laboratories may be eligible for laboratory-directed research and development funding.

**Public Law 110-161, Section 309 of Division C of the Consolidated Appropriations Act, 2008** LABORATORY DIRECTED RESEARCH AND DEVELOPMENT. Of the funds made available by the Department of Energy for activities at government-owned, contractor-operated laboratories funded in this Act or subsequent Energy and Water Development Appropriations Acts, the Secretary may authorize a specific amount, not to exceed 8 percent of such funds, to be used by such laboratories for laboratory-directed research and development: Provided, That the Secretary may also authorize a specific amount not to exceed 4 percent of such funds, to be used by the plant manager of a covered nuclear weapons production plant or the manager of the Nevada Site Office for plant or site-directed research and development:

Provided further, That notwithstanding Department of Energy order 413.2A, dated January 8, 2001, beginning in FY 2006 and thereafter, all DOE laboratories may be eligible for laboratory-directed research and development funding.

**Public Law 109-103, Section 311 of the Energy and Water Development Appropriations Act, 2006** Of the funds made available by the Department of Energy for activities at government-owned, contractor-operator operated laboratories funded in this Act or subsequent Energy and Water Development Appropriations Acts, the Secretary may authorize a specific amount, not to exceed 8 percent of such funds, to be used by such laboratories for laboratory-directed research and development: Provided, That the Secretary may also authorize a specific amount not to exceed 3 percent of such funds, to be used by the plant manager of a covered nuclear weapons production plant or the manager of the Nevada Site Office for plant or site-directed research and development: Provided further, That notwithstanding Department of Energy order 413.2A, dated January 8, 2001, beginning in FY 2006 and thereafter, all DOE laboratories may be eligible for laboratory-directed research and development funding.

**Public Law 107-66, Section 310 of the Energy and Water Development Appropriations Act, 2002** The Administrator of the National Nuclear Security Administration may authorize the manager of the Nevada Operations Office to engage in research, development, and demonstration activities with respect to the development, test, and evaluation capabilities necessary for operations and readiness of the Nevada Test Site: Provided, That of the amount allocated to the Nevada Operations Office each fiscal year from amounts available to the Department of Energy for such fiscal year for national security programs at the Nevada Test Site, not more than an amount equal to 2 percent of such amount may be used for these activities.

**Public Law 107-296, 6 U.S.C. 189(f), Section 309(f) of the Homeland Security Act of 2002** Laboratory Directed Research and Development by the Department of Energy.--No funds authorized to be appropriated or otherwise made available to the Department in any fiscal year may be obligated or expended for laboratory-directed research and development activities carried out by the Department of Energy unless such activities support the missions of the Department of Homeland Security.

**Public Law 106-377, Section 310 of the Energy and Water Development Appropriations Act, 2001** The Administrator of the National Nuclear Security Administration may authorize the plant manager of a covered nuclear weapons production plant to engage in research, development, and demonstration activities with respect to the engineering and manufacturing capabilities at such plant in order to maintain and enhance such capabilities at such plant: Provided, That of the amount allocated to a covered nuclear weapons production plant each fiscal year from amounts available to the Department of Energy for such fiscal year for national security programs, not more than an amount equal to 2 percent of such amount may be used for these activities: Provided further, That for purposes of this section, the term “covered nuclear weapons production plant” means the following:

- (1) The Kansas City Plant, Kansas City, Missouri.
- (2) The Y-12 Plant, Oak Ridge, Tennessee.
- (3) The Pantex Plant, Amarillo, Texas.
- (4) The Savannah River Plant, South Carolina.

**Public Law 106-65, title XXXII. The National Nuclear Security Administration Act, Title XXXII for Fiscal Year 2000** Established a separately organized agency within DOE.

**Public Law 106-398, Section 3156 of the National Defense Authorization Act for Fiscal Year 2001** ENGINEERING AND MANUFACTURING RESEARCH, DEVELOPMENT, AND DEMONSTRATION BY PLANT MANAGERS OF CERTAIN NUCLEAR WEAPONS PRODUCTION PLANTS

(a) Authority for Programs at Nuclear Weapons Production Facilities. --The Administrator for Nuclear Security shall authorize the head of each nuclear weapons production facility to establish an Engineering and Manufacturing Research, Development, and Demonstration Program under this section.

(b) Projects and Activities. --The projects and activities carried out through the program at a nuclear weapons production facility under this section shall support innovative or high-risk design and manufacturing concepts and technologies with potentially high payoff for the nuclear weapons complex. Those projects and activities may include--

- (1) replacement of obsolete or aging design and manufacturing technologies;
- (2) development of innovative agile manufacturing techniques and processes; and
- (3) training, recruitment, or retention of essential personnel in critical engineering and manufacturing disciplines.

(c) Funding. --The Administrator may authorize the head of each nuclear weapons production facility to obligate up to \$3,000,000 of funds within the Advanced Design and Production technologies Campaign available for such facility during FY 2001 to carry out projects and activities of the program under this section at that facility.

(d) Report.--The Administrator for Nuclear Security shall submit to the Committee on Armed Services of the Senate and the Committee on Armed Services of the House of Representatives, not later than September 15, 2001, a report describing, for each nuclear weapons production facility, each project or activity for which funds were obligated under the program, the criteria used in the selection of each such project or activity, the potential benefits of each such project or activity, and the Administrator's recommendation concerning whether the program should be continued.

(e) Definition.--For purposes of this section, the term "nuclear weapons production facility" has the meaning given that term in section 3281(2) of the National Nuclear Security Administration Act (title XXXII of Public Law 106-65; 113 Stat. 968; 50 U.S.C. 2471(2)).

**Public Law 104-201, Section 3136 of the National Defense Authorization Act for Fiscal Year 1997** (a) Limitation— No funds authorized to be appropriated or otherwise made available to the Department of Energy for FY 1997 under section 3101 may be obligated or expended for activities under the Department of Energy

Laboratory Directed Research and Development Program, or under any Department of Energy technology transfer program or cooperative research and development agreement, unless such activities support the national security mission of the Department of Energy. (b) Annual Report— (1) The Secretary of Energy shall annually submit to the congressional defense committees a report on the funds expended during the preceding fiscal year on activities under the Department of Energy Laboratory Directed Research and Development Program. The purpose of the report is to permit an assessment of the extent to which such activities support the

national security mission of the Department of Energy. (2) Each report shall be prepared by the officials responsible for Federal oversight of the funds expended on activities under the program. (3) Each report shall set forth the criteria utilized by the officials preparing the report in determining whether or not the activities reviewed by such officials support the national security mission of the Department.

**Public Law 102-484, Section 3135(c) of the National Defense Authorization Act for Fiscal Year 1993** Directs that funds authorized to be appropriated to the Department of Energy for Atomic Energy Defense Activities and made available for LDRD, shall be made available for cooperative research and development agreements or other arrangements for technology transfer.

**Public Law 101-510, The National Defense Authorization Act for Fiscal Year 1991** Section 3132, 50 U.S.C. 2791 Authorizes government-owned, contractor-operated laboratories that are funded out of funds available to DOE for national security programs (i.e., atomic energy defense activities) to carry out LDRD, not to exceed 6 percent of such funds, for the purpose of maintaining the vitality of the laboratory in defense-related scientific disciplines.

**Public Law 95-39, An Act for Authorizations and Appropriations for the Energy Research and Development Administration for Fiscal Year 1977** Provides specific authority so that the director of a government-owned, contractor-operated laboratory may use a reasonable amount of the laboratory's operating budget to fund employee-suggested projects up to the pilot stage of development, with the approval of the Secretary.

**Public Law 95-91, The Department of Energy Organization Act** Sections 101 and 102, 42 U.S.C. 7111(4) and 7112(5), place the research and development activities formerly performed by the AEC and Energy Research Development Administration under the Secretary of Energy, and direct the Department to carry out the planning, support, and management of a comprehensive energy research and development program.

**Public Law 93-438, The Energy Reorganization Act of 1974** As amended, sections 2, 103, and 107, 42 U.S.C. 5801(b), 5813, and 5817(a), Creates the Energy Research and Development Administration (ERDA) to bring together and direct Federal activities relating to research and development on the various sources of energy and to carry out general basic research activities.

**The Atomic Energy Act of 1954** As amended, sections 3, 31, and 33, 42 U.S.C. 2013, 2051, and 2053, Provides broad authority for research and development activities and their funding.

## Appendix B. Conference Report Language Requirements

**109<sup>th</sup> Congress Conference Report regarding the Energy & Water Development Appropriations Bill, 2006 (H. Rept. 109-275)** The conferees are concerned with the level of overhead charges applied to programs funded in this bill and urge the Department to continue to work to minimize the overhead burden on all program activities. In order to guarantee an equitable allocation of overhead costs the Secretary should apply overhead charges to LDRD activities consistent with cost accounting practices applied to program activities that are direct funded. The conference agreement increases the allowable percentage for LDRD, PDRD, and SDRD activities to allow this accounting change without harming the underlying discretionary research activities. The change in accounting practices should be implemented with no net reduction in LDRD levels below 6 percent of the funds provided by the Department of Energy to such labs for national security activities and 2 percent for PDRD and SDRD activities at the appropriate plants and sites. Within 90 days after the date of enactment of this Act, the Secretary of Energy shall submit a report to the Committees on Appropriations detailing how the accounting change will be implemented without effecting the basic research and the change shall be implemented within 180 days of enactment.

**108<sup>th</sup> Congress - House Report Regarding the Energy & Water Development Appropriations Bill, 2004 (H. Rept. 108-212)** The Committee recognizes the value of conducting discretionary research at DOE's National Laboratories. Such research provides valuable benefits to the Department and to other Federal agencies, and is crucial to attracting and retaining scientific talent at the laboratories. However, the Committee continues to have concerns about the financial execution of this program. One concern centers on the manner in which DOE levies the LDRD "tax" on all DOE and Work for Other programs, and then accumulates the funds into an overhead pool. This Committee typically deals with defense and non-defense allocations within the Energy and Water Development bill, and the line between those two allocations is not easily crossed. Under LDRD, however, the laboratory directors are able to pool defense and non-defense appropriations at will. The only obvious solution to this concern is to require DOE to establish and track separate LDRD accounts for defense and non-defense funding sources, and the Committee is not yet ready to direct that change. The other principal concern deals with the application of LDRD to work being performed for other agencies (work for others). The conference report accompanying the Energy and Water Development Appropriations Act, 2002 (P.L. 107-66) directed the Secretary to "include in the annual report to Congress on LDRD activities an affirmation that all LDRD activities derived from funds of other agencies have been conducted in a manner that support science and technology development that benefits the programs of the sponsoring agencies and is consistent with the Appropriations Acts that provided funds to those agencies." The Department has implemented this guidance by including the following language into its standard project proposal and funding acceptance documents that it requires the funding WFO agencies to sign: "The Department of Energy believes that LDRD efforts provide opportunities in research that are instrumental in maintaining cutting-edge science capabilities that benefit all of the customers at the laboratory. The Department will conclude that by providing funds to DOE to perform work, you acknowledge that such activities are beneficial to your organization and consistent with

appropriations acts that provide funds to you.” This is too facile a solution for the Department. According to a review conducted by this Committee’s investigative staff, only a little more than half of the WFO customers indicated they could reliably certify that DOE’s LDRD activities are consistent with the funding agencies’ appropriations acts. Nevertheless, most agencies sign the required certification letter to DOE because they see no real alternative. The Committee fully expects that there are terms and conditions attached to the appropriations acts for these other agencies that are being ignored through this so-called “certification” process for LDRD work.

The Committee is considering changing the arrangement by which LDRD activities are funded to eliminate these concerns. The results of an ongoing General Accounting Office review will help to inform the Committee’s choice. The Committee is receptive to streamlining the annual LDRD report to Congress, which is undoubtedly a significant burden for the Department to prepare and is of little value to this Committee in resolving the concerns identified above. The Department should work with Committee staff to develop a simpler and more useful LDRD report.

**107<sup>th</sup> Congress Conference Report regarding the Energy & Water Development Appropriations Bill, 2002 (H. Rept. 107-258)** The conference agreement does not include bill language proposed by either the House or the Senate regarding the Laboratory Directed Research and Development (LDRD) program. The conferees recognize the benefits of LDRD and expect LDRD activities to continue at previously authorized levels. However, when accepting funds from another Federal agency that will be used for LDRD activities, the Department of Energy shall notify that agency in writing how much will be used for LDRD activities. In addition, the conferees direct the Secretary of Energy to include in the annual report to Congress on all LDRD activities an affirmation that all LDRD activities derived from funds of other agencies have been conducted in a manner that supports science and technology development that benefits the programs of the sponsoring agencies and is consistent with the Appropriations Acts that provided funds to those agencies.

**106<sup>th</sup> Congress – House Report Regarding the Energy & Water Development Appropriations Bill, 2001 (H. Rept. 106-693)** The Committee has retained the limitation of four percent on LDRD that was included in the FY 2000 appropriations bill. This program allows each laboratory director to use four percent of all operating funds provided to the laboratory to conduct research and development projects selected at the discretion of the laboratory directors. For Fiscal Year 2001, the Department estimates that the laboratories will spend \$300 million on LDRD and additional funds on Director's Discretionary Research and Development (DDR). The Committee recommendation would provide approximately \$200 million for LDRD, the same level as FY 2000. Rather than allowing each laboratory to tax all operating dollars that are sent to the laboratory, the Committee directs the Department to submit a separate line item for LDRD funding in each appropriation account in the FY 2002 budget request. This will provide the visibility and accountability for this type of funding that the Committee believes has been lacking in prior years. It also addresses another concern of the Committee that LDRD funding is automatically taken off the top of each program performed at the laboratory. This has the effect of placing LDRD funding in a completely protected funding category at the expense of all other programs in the Department. The Committee supports some LDRD funding but believes it should be placed on equal terms with other important programs.

The Department is directed to submit a specific request for laboratory-directed research and development funding in each program in the annual budget submission.

**106<sup>th</sup> Congress – House Report Regarding the Energy & Water Development Appropriations Bill, 2001 (H. Rept. 106-907)** The conference agreement includes an allowance of six percent for the LDRD program and two percent for nuclear weapons production plants. Travel costs for LDRD are exempt from the contractor travel ceiling. The conferees direct the Department's Chief Financial Officer to develop and execute a financial accounting report of LDRD expenditures by laboratory and weapons production plant. This report, due to the House and Senate Committees on Appropriations by December 31, 2000, and each year thereafter, should provide costs by personnel salaries, equipment, and travel. The Department should work with the Committees on the specific information to be included in the report.

**FY 2001 Energy and Water Development Appropriations Conference Report (H. Rept. 106-693)** Directs the DOE Chief Financial Officer to develop and execute a financial accounting report of LDRD expenditures by laboratory and weapons production plant.

## Appendix C. Cost Base by Program Offices or SPP\*

DOE Program Funding Office (\$M)	NNSA	Office of Science	Office of Energy Efficiency & Renewable Energy	Office of Nuclear Energy	Office of Environmental Management	Office of Cybersecurity, Energy Security, & Emergency Response	Office of Electricity	Office of Fossil Energy	Advanced Research Projects Agency - Energy	Office of Environment, Health, Safety and Security	Other DOE Program Offices	Department of Defense	Department of Homeland Security	Other SPP	Total Costs
Ames Laboratory	0.00	39.66	20.56	0.01	0.13	0.00	0.05	4.23	0.89	0.00	0.34	0.44	0.00	1.86	\$68.17
Argonne National Laboratory	103.63	716.33	140.30	33.88	11.19	7.10	14.31	7.34	7.74	1.74	41.00	31.65	13.54	75.95	\$1,205.70
Brookhaven National Laboratory	16.75	649.61	5.12	1.85	1.02	0.00	0.59	0.30	0.11	0.03	20.27	1.78	0.45	31.42	\$729.30
FERMI National Accelerator Laboratory	0.00	398.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.15	0.00	3.65	\$407.54
Idaho National Laboratory	125.54	11.54	61.72	952.77	10.20	0.00	13.71	4.11	3.53	0.39	185.32	363.55	75.05	159.72	\$1,967.15
Kansas City National Security Campus	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1481.27	0.00	0.00	684.04	\$2,165.31
L. Berkeley National Laboratory	24.51	845.97	148.20	4.10	3.55	3.71	5.97	13.55	2.77	0.00	9.64	24.34	0.75	121.13	\$1,208.19
L. Livermore National Laboratory	2333.38	85.98	14.95	1.03	10.31	26.57	11.86	13.93	1.75	3.70	42.31	331.13	20.65	88.11	\$2,985.66
Los Alamos National Laboratory	3550.73	127.13	15.49	19.19	40.74	0.00	4.96	7.17	2.28	0.54	54.85	103.64	3.53	171.13	\$4,101.38
National Energy Technology Laboratory	130.87	1.05	0.00	0.00	0.00	0.00	0.00	106.34	1.23	0.00	30.27	0.00	0.00	5.63	\$275.39
National Renewable Energy Laboratory	0.90	41.36	595.16	1.51	0.00	16.63	14.14	9.99	9.15	0.00	88.38	21.34	4.28	88.30	\$891.14
Nevada National Security Site	657.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.65	17.17	3.36	\$696.63
Oak Ridge National Laboratory	310.63	1057.10	198.61	75.13	5.96	20.28	39.86	12.35	6.41	1.07	39.52	93.36	6.32	260.50	\$2,127.10
Pacific Northwest National Laboratory	445.57	285.57	177.06	35.71	22.97	21.76	60.08	12.04	7.73	0.81	92.19	88.88	75.11	257.08	\$1,582.56
Pantex Plant	1232.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$1,232.98
Princeton Plasma Physics Laboratory	0.43	143.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	0.00	0.00	4.40	\$150.51
Sandia National Laboratories	3045.07	85.02	96.45	31.68	29.03	16.90	34.65	4.89	2.59	4.43	87.16	1292.88	60.30	51.62	\$4,842.67
Savannah River National Laboratory	150.53	5.48	0.95	6.32	75.77	0.00	0.28	0.16	0.91	0.10	93.09	14.39	1.43	6.40	\$355.81
Savannah River Site	609.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$609.10
SLAC National Accelerator Laboratory	0.80	508.33	13.57	0.00	0.00	0.00	2.19	0.17	0.01	0.00	9.67	26.27	0.49	17.51	\$579.01
Thomas Jefferson National Accelerator	0.45	203.96	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29	0.00	0.00	3.08	\$209.83
Y-12 National Security Complex	1656.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$1,656.25
<b>Total by Office or SPP</b>	<b>\$14,395.57</b>	<b>\$5,206.15</b>	<b>\$1,488.19</b>	<b>\$1,163.18</b>	<b>\$210.87</b>	<b>\$112.95</b>	<b>\$202.65</b>	<b>\$196.57</b>	<b>\$47.10</b>	<b>\$12.81</b>	<b>\$2,279.93</b>	<b>\$2,417.45</b>	<b>\$279.07</b>	<b>\$2,034.89</b>	<b>\$30,047.38</b>

\*The cost base information is provided by the labs, plants, or sites and certified by the field office managing the lab, plant, or site. The cost base does not directly tie to obligations in the DOE accounting system because the LDRD, PDRD, and SDRD base is accrued through indirect costs.

## **Appendix D. FY 2025 Project Listing**

(provided separately)