AMENDMENT IN THE NATURE OF A SUBSTITUTE TO COMMITTEE PRINT

OFFERED BY M__. _____

Strike the text of the committee print and insert the following:

TITLE I—COMMITTEE ON SCIENCE, SPACE, AND TECHNOLOGY

SEC. 90001. DEPARTMENT OF COMMERCE REGIONAL INNOVATION.

In addition to amounts otherwise available, there is appropriated to the Department of Commerce for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $5,000,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for planning and establishment of regional innovation initiatives pursuant to the Stevenson-Wydler Act, and for related administrative expenses.

SEC. 90002. FUNDING FOR DEPARTMENT OF ENERGY LABORATORY INFRASTRUCTURE.

(a) OFFICE OF SCIENCE APPROPRIATION.—In addition to amounts otherwise available, there is appropriated

to the Department of Energy Office of Science for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $10,391,804,000, to remain available until September 30, 2026, to carry out laboratory infrastructure projects, including—

(1) $7,780,566,000 for Construction Projects, of which—

(A) $220,000,000 shall be used for the Exascale Computing Project;

(B) $493,600,000 shall be used for the Frontier Exascale Computing System;

(C) $427,400,000 shall be used for the Aurora Exascale Computing System;

(D) $155,400,000 shall be used for upgrades to the National Energy Research Scientific Computing Center;

(E) $38,616,000 shall be used for the Energy Sciences Network;

(F) $157,000,000 shall be used for the Advanced Photon Source Upgrade;

(G) $729,800,000 shall be used for the Spallation Neutron Source Proton Power Upgrade and Second Target Station;

(H) $337,600,000 shall be used for the Advanced Light Source Upgrade;

(I) $472,850,000 shall be used for the Linac Coherent Light Source-II, including the High Energy Upgrade;

(J) $86,000,000 shall be used for the Cryomodule Repair and Maintenance Facility;

(K) $25,000,000 shall be used for the High Flux Isotope Reactor Pressure Vessel Replacement;

(L) $1,325,000,000 shall be used for United States contributions to the ITER project as authorized in section 972(c) of the Energy Policy Act of 2005 (42 U.S.C. 16312(c));

(M) $212,300,000 shall be used for the Matter in Extreme Conditions Upgrade;

(N) $581,000,000 shall be used for the Proton Improvement Plan-II project;

(O) $1,300,000,000 shall be used for the Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment;

(P) $13,000,000 shall be used for the Muon to Electron Conversion Experiment;

(Q) $806,000,000 shall be used for the Electron Ion Collider;

(R) $213,000,000 shall be used for the Oak Ridge National Laboratory Radioisotope Processing Facility; and

(S) $187,000,000 shall be used for the United States Stable Isotope Production and Research Center;

(2) $1,470,238,000 for Major Items of Equipment, of which—

(A) $302,000,000 shall be used for the High Performance Data Facility;

(B) $90,000,000 shall be used for the Nanoscale Science Research Center Recapitalization project;

(C) $83,500,000 shall be used for the National Synchrotron Light Source-II Experimental Tools II project;

(D) $59,200,000 shall be used for the Material Plasma Exposure Experiment;

(E) $567,875,000 shall be used for such projects for the High Energy Physics program, including—

(i) $237,000,000 for the Cosmic Microwave Background-Stage 4 experiment; and

(ii) $223,875,000 for upgrades to the Large Hadron Collider; and

(F) $367,663,000 shall be used for such projects for the Nuclear Physics program, including $212,500,000 for the Ton-Scale Neutrinoless Double Beta Decay experiment; and

(3) $1,141,000,000 for Science Laboratories Infrastructure, of which—

(A) $111,500,000 shall be used for such projects at the Oak Ridge National Laboratory;

(B) $115,000,000 shall be used for such projects at the Thomas Jefferson National Accelerator Facility;

(C) $150,400,000 shall be used for such projects at the Princeton Plasma Physics Laboratory;

(D) $29,850,000 shall be used for such projects at the Ames Laboratory;

(E) $90,000,000 shall be used for such projects at the Brookhaven National Laboratory;

(F) $265,000,000 shall be used for such projects at the Lawrence Berkeley National Laboratory;

(G) $152,000,000 shall be used for such projects at the SLAC National Accelerator Laboratory;

(H) $100,000,000 shall be used for such projects at the Argonne National Laboratory; and

(I) $127,250,000 shall be used for such projects at the Fermi National Accelerator Laboratory.

(b) ENERGY EFFICIENCY AND RENEWABLE ENERGY APPROPRIATION.—In addition to amounts otherwise available, there is appropriated to the Department of Energy Office of Energy Efficiency and Renewable Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $349,200,000, to remain available until September 30, 2026, to carry out laboratory infrastructure projects, of which—

(1) $163,000,000 shall be used for the Energy Materials and Processing at Scale project;

(2) $96,200,000 shall be used for the Advanced Research in Integrated Energy Systems initiative; and

(3) $90,000,000 shall be used for high-performance computing equipment and infrastructure.

(c) NUCLEAR ENERGY APPROPRIATION.—In addition to amounts otherwise available, there is appropriated to the Department of Energy Office of Nuclear Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $408,000,000, to remain available until September 30, 2026, to carry out laboratory infrastructure projects, of which—

(1) $66,000,000 shall be used for the Sample Preparation Laboratory;

(2) $125,000,000 shall be used for the Advanced Test Reactor and Materials and Fuel Complex Plant Health projects;

(3) $122,000,000 shall be used for the Advanced Test Reactor Recapitalization project; and

(4) $95,000,000 shall be used for the Versatile Test Reactor as authorized in section 955 of the Energy Policy Act of 2005 (42 U.S.C. 16275).

(d) FOSSIL ENERGY AND CARBON MANAGEMENT APPROPRIATION.—In addition to amounts otherwise available, there is appropriated to the Department of Energy Office of Fossil Energy and Carbon Management for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $20,000,000, to remain available until September 30, 2026, to carry out activities to support high-performance computing equipment and infrastructure.

(e) GENERAL LABORATORY INFRASTRUCTURE.—In addition to amounts otherwise available, there is appropriated for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $1,080,996,000, to remain available until September 30, 2026, to carry out activities to support infrastructure at Department of Energy National Laboratories for civilian research and development purposes, including General Plant Projects and General Plant Equipment, of which—

(1) not less than $377,301,000 shall be available to the Office of Science;

(2) not less than $209,800,000 shall be available to the Office of Energy Efficiency and Renewable Energy;

(3) not less than $40,000,000 shall be available to the Office of Nuclear Energy;

(4) not less than $190,000,000 shall be available to the Office of Fossil Energy and Carbon Management; and

(5) not less than $102,200,000 shall be available to the Office of Environmental Management.

SEC. 90003. DEPARTMENT OF ENERGY RESEARCH, DEVELOPMENT, AND DEMONSTRATION ACTIVITIES.

(a) OFFICE OF SCIENCE APPROPRIATIONS.—In addition to amounts otherwise available, there is appropriated

to the Office of Science of the Department of Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $2,000,000,000, to remain available until September 30, 2026, to carry out research and development activities. Of the funds provided by this section:

(1) COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP.—$116,000,000 shall be used to carry out the Department of Energy Computational Science Graduate Fellowship program.

(2) QUANTUM USER EXPANSION FOR SCIENCE AND TECHNOLOGY.—$340,000,000 shall be used to carry out activities to facilitate access of researchers to United States quantum computing facilities for research purposes as part of the program authorized in title IV of the National Quantum Initiative Act (15 U.S.C. 8851 et seq.).

(3) LOW-DOSE RADIATION RESEARCH.—$180,000,000 shall be used to carry out the activities of the low-dose radiation research program authorized in section 306(c) of the Department of Energy Research and Innovation Act (42 U.S.C. 18644(c)).

(4) FUSION MATERIALS RESEARCH AND DEVELOPMENT.—$250,000,000 shall be used to carry out

the activities of the fusion materials research and development program authorized in section 307(b) of the Department of Energy Research and Innovation Act (42 U.S.C. 18645(b)).

(5) INERTIAL FUSION RESEARCH AND DEVELOPMENT.—$140,000,000 shall be used to carry out the activities of the program of research and technology development in inertial fusion for energy applications authorized in section 307(d) of the Department of Energy Research and Innovation Act (42 U.S.C. 18645(d)).

(6) ALTERNATIVE AND ENABLING FUSION ENERGY CONCEPTS.—$275,000,000 shall be used to carry out the activities of the alternative and enabling fusion energy concepts program authorized in section 307(e) of the Department of Energy Research and Innovation Act (42 U.S.C. 18645(e)).

(7) MILESTONE-BASED FUSION ENERGY DEVELOPMENT PROGRAM.—$325,000,000 shall be used to carry out the activities of the milestone-based fusion energy development program authorized in section 307(i) of the Department of Energy Research and Innovation Act (42 U.S.C. 18645(i)).

(8) FUSION REACTOR SYSTEM DESIGN.—$250,000,000 shall be used to carry out the fusion

reactor system design activities authorized in section 307(j) of the Department of Energy Research and Innovation Act (42 U.S.C. 18645(j)).

(b) ENERGY EFFICIENCY AND RENEWABLE ENERGY APPROPRIATION.—

(1) DEMONSTRATION PROJECTS.—In addition to amounts otherwise available, there is appropriated to the Department of Energy Office of Energy Efficiency and Renewable Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $1,107,500,000, to remain available until September 30, 2026, to carry out demonstration projects, including demonstration of advanced—

(A) wind energy technologies as authorized in section 3003 of the Energy Act of 2020 (42 U.S.C. 16237);

(B) solar energy technologies as authorized in section 3004 of the Energy Act of 2020 (42 U.S.C. 16238);

(C) geothermal technologies as authorized in section 615 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17194);

(D) water power technologies as authorized in sections 634 and 635 of the Energy Inde-

pendence and Security Act of 2007 (42 U.S.C. 17213 et al.);

(E) vehicle technologies;

(F) bioenergy technologies; and

(G) building technologies.

(2) CLEAN ENERGY MANUFACTURING INNOVATION INSTITUTE.—In addition to amounts otherwise available, there is appropriated to the Office of Energy Efficiency and Renewable Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $70,000,000, to remain available until September 30, 2026, to carry out activities to support one new Clean Energy Manufacturing Innovation Institute.

(c) NUCLEAR ENERGY APPROPRIATION.—In addition to amounts otherwise available, there is appropriated to the Department of Energy Office of Nuclear Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $52,500,000, to remain available until September 30, 2026, to carry out the activities of the research reactor infrastructure program as authorized in section 954(a) of the Energy Policy Act of 2005 (42 U.S.C. 16274(a)).

(d) FOSSIL ENERGY AND CARBON MANAGEMENT APPROPRIATION.—In addition to amounts otherwise avail-

able, there is appropriated to the Department of Energy Office of Fossil Energy and Carbon Management for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $10,000,000, to remain available until September 30, 2026, to carry out on-site demonstration projects on the reduction of environmental impacts of produced water.

(e) DIVERSITY SUPPORT.—In addition to amounts otherwise available, there is appropriated to the Department of Energy Office of Economic Impact and Diversity for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $20,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, to support programs across the Department's civilian research, development, demonstration, and commercial application activities.

(f) OVERSIGHT.—In addition to amounts otherwise available, there is appropriated to the Department of Energy for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $50,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for oversight by the Department of Energy Office of Inspector

General of the Department of Energy activities for which funding is appropriated in this title.

SEC. 90004. ENVIRONMENTAL PROTECTION AGENCY CLIMATE CHANGE RESEARCH AND DEVELOPMENT.

In addition to amounts otherwise made available, there is appropriated to the Environmental Protection Agency for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $264,000,000 to remain available until September 30, 2026, to conduct environmental research and development activities related to climate change, including related administrative expenses. The amounts made available in this section shall be used for the purposes of—

(1) conducting further research on mitigation of climate forcing emissions, adaptation to reduce the impacts of climate change, and approaches to build resilience to climate change;

(2) providing increased support for evidence-based regional and community climate adaptation and resilience actions, including development of a grants-based regional climate science network;

(3) conducting further social science research to upgrade the utilization and efficacy of scientific tools

to mitigate, adapt, and build resilience to the impacts of climate change;

(4) increasing engagement capacity with frontline communities with environmental justice concerns in translating, utilizing, and evaluating scientific research results;

(5) conducting further research to improve understanding of impacts of decarbonized energy sources compared to existing energy sources, including cumulative impacts of pollution from existing sources;

(6) conducting further research to improve understanding of the impacts of the transition to decarbonized energy, transportation, and building sectors on frontline communities;

(7) conducting further research to improve understanding of impacts of climate change, including cumulative impacts of pollution exposure, in communities that face disproportionate impacts from energy transitions; and

(8) providing increased support to conduct further environmental research and development activities on climate change that the Administrator deems appropriate.

SEC. 90005. FEDERAL EMERGENCY MANAGEMENT AGENCY ASSISTANCE TO FIREFIGHTERS GRANTS.

In addition to amounts otherwise available, there is appropriated to the Federal Emergency Management Agency for Fiscal Year 2022, out of any money in the Treasury not otherwise appropriated, to remain available until September 30, 2026, $798,000,000, for Assistance to Firefighters Grants pursuant to the Federal Fire Prevention and Control Act of 1974: *Provided*, That $718,000,000 of such amount shall be available for Assistance to Firefighters Grants for fire and EMS department facility construction, upgrades, and modifications, and for related administrative expenses: *Provided further*, That $80,000,000 of such amount shall be available for Assistance to Firefighters Grants for PFAS-free personal protective equipment and PFAS-free firefighting foam, and for related administrative expenses.

SEC. 90006. FIREFIGHTER GRANT OVERSIGHT.

In addition to amounts otherwise available, there is appropriated to the Department of Homeland Security for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $2,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for oversight by the Department of Homeland Security Office of Inspector

General of the activities for which funding is appropriated in section 90005.

SEC. 90007. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION INFRASTRUCTURE.

In addition to amounts otherwise made available, there are appropriated to the National Aeronautics and Space Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $4,000,000,000 to remain available until September 30, 2026, for repair, recapitalization, and modernization of physical infrastructure and facilities, including related administrative expenses, consistent with the responsibilities authorized under section 31502 of title 51, United States Code, on maintenance of facilities and section 31503 of title 51, United States Code, on laboratory productivity.

SEC. 90008. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLIMATE CHANGE RESEARCH AND DEVELOPMENT.

In addition to amounts otherwise made available, there are appropriated to the National Aeronautics and Space Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $388,000,000 to remain available until September 30, 2026, of which $85,000,000 shall be for research and development on subseasonal to seasonal models and observa-

tions, climate resilience and sustainability, and airborne instruments, campaigns, and surface networks to understand, observe, and mitigate global climate change and its impacts, including related administrative expenses, authorized under section 60501 of title 51, United States Code, and research and development activities on upper atmospheric research authorized under sections 20161, 20163, and 20164 of title 51, United States Code; $28,000,000 shall be for investments in data management and processing to support research, development, and applications to understand, observe, and mitigate the global climate change and its impacts consistent with the responsibilities authorized under section 60506 of title 51, United States Code; $50,000,000 shall be for research and development to support the wildfire community and improve wildfire fighting operations, including the Scalable Traffic Management for Emergency Response Operations project; and $225,000,000 shall be for advancing aeronautics research and development on sustainable aviation, including related administrative expenses, consistent with the responsibilities authorized under sections 40701 and 40702 of title 51, United States Code.

SEC. 90009. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION OVERSIGHT AND CYBERSECURITY.

In addition to amounts otherwise made available, there are appropriated to the National Aeronautics and Space Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $7,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for information technology security and cybersecurity activities for which funding is appropriated under sections 90007 and 90008. In addition to amounts otherwise made available, there are appropriated to the National Aeronautics and Space Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $5,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for the Office of Inspector General to provide oversight over the management of funds appropriated under sections 90007 and 90008.

SEC. 90010. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY RESEARCH.

In addition to amounts otherwise available, there is appropriated to the National Institute of Standards and Technology for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $1,195,000,000, to remain available until September 30, 2031, except that no

amounts may be expended after September 30, 2031, for scientific and technical research pursuant to the National Institute of Standards and Technology Act, for artificial intelligence, cybersecurity, quantum information science and technology, biotechnology, communications technologies, advanced manufacturing, resilience to natural hazards including wildfires, greenhouse gas and other climate-related measurement, and for related administrative expenses.

SEC. 90011. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY SUPPORTING AMERICAN MANUFACTURING.

(a) IN GENERAL.—In addition to amounts otherwise available, there is appropriated to the National Institute of Standards and Technology for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $2,000,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, of which—

(1) $1,000,000,000 shall be for the Hollings Manufacturing Extension Partnership as authorized by sections 25 and 26 of the National Institute of Standards and Technology Act (15 U.S.C. 278k; 278l), including related administrative expenses; and

(2) $1,000,000,000 shall be to provide funds, through existing programs, for advanced manufacturing research, development, and testbeds, including related administrative expenses.

(b) LIMITATION.—Amounts provided under subsection (a)(1) shall not be subject to cost share requirements under section 25(e)(2) of the National Institute of Standards and Technology Act (15 U.S.C. 278k(e)(2)). The authority made available pursuant to this preceding sentence shall be elective for any Manufacturing Extension Partnership Center that also receives funding from a State that is conditioned upon the application of a Federal cost sharing requirement.

SEC. 90012. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY RESEARCH FACILITIES.

In addition to amounts otherwise available, there is appropriated to the National Institute of Standards and Technology for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $1,000,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for necessary expenses as authorized by sections 13 through 15 of the National Institute of Standards and Technology Act (15 U.S.C. 278c-278e) for construction of new research facilities, including architectural and engineering

design, and for renovation and maintenance of existing facilities.

SEC. 90013. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OVERSIGHT.

In addition to amounts otherwise available, there is appropriated to the Department of Commerce for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $5,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for oversight by the Department of Commerce Office of Inspector General of National Institute of Standards and Technology activities for which funding is appropriated in this title.

SEC. 90014. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WEATHER, OCEAN, AND CLIMATE RESEARCH AND FORECASTING.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $1,240,000,000, to remain available until September 30, 2026, to carry out the provisions of the Weather Research and Forecasting Innovation Act (15 U.S.C. 8501 et seq.), the National Integrated Drought Information System Act (15 U.S.C. 313d), the National Climate Program Act (15

U.S.C. 2901–2908.), the Harmful Algal Bloom and Hypoxia Research and Control Act (33 U.S.C. 4001–4010), the Federal Ocean Acidification Research and Monitoring Act (33 U.S.C. 3701–3708), title III of the America COMPETES Act (33 U.S.C. 893, 893a, 893b, and 893c), and the Weather Service Organic Act (15 U.S.C. 313 et seq.). The amounts in this section shall be used for the purposes of—

(1) increasing the understanding, and predictive and forecasting capabilities, of weather and climate phenomena including, but not limited to, hurricanes, tornadoes, drought, wildland fires and associated fire weather, extreme precipitation, extreme heat and extreme heat events, flooding, and other severe weather, and their impacts;

(2) increasing marine research capacity and the understanding of the impacts of climate change on ocean processes and phenomena including, but not limited to, ocean acidification, harmful algal blooms, hypoxia and deoxygenation, sea level change, and ocean warming;

(3) enhancing weather, ocean, climate, and other environmental observations, research, data, data assimilation, and modeling;

(4) facilitating successful transition of research into operations and operations to research, including social science for improved decision support services;

(5) acquiring related high-performance computing, data management, and storage assets; and

(6) developing, leveraging, and employing new capabilities, technologies and instruments, including dissemination and processing.

SEC. 90015. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION CLIMATE ADAPTATION AND RESILIENCE ACTIVITIES.

(a) IN GENERAL.—In addition to amounts otherwise available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $765,000,000 to remain available until September 30, 2026, to carry out the provisions of the National Climate Program Act (15 U.S.C. 2901–2908), the Weather Research and Forecasting Innovation Act (15 U.S.C. 8501 et seq.), title III of the America COMPETES Act (33 U.S.C. 893, 893a, 893b, and 893c), the National Integrated Drought Information System Act (15 U.S.C. 313d), the Weather Service Organic Act (15 U.S.C. 313 et seq.), the Harmful Algal Bloom and Hypoxia Research and Control Act (33 U.S.C. 4001–4010), and the Federal

Ocean Acidification Research and Monitoring Act (33 U.S.C. 3701–3708) to develop and distribute actionable climate information for communities across all States, territories, and Tribal lands of the United States in an equitable manner, to build climate resilience and develop a climate-ready workforce.

(b) USE OF FUNDS.—The amounts made available in subsection (a) shall be used for the following activities:

(1) $265,000,000 to better enable end users, as appropriate, to assess the relative risk of, determine possible adaptation and mitigation strategies for, and make executive and budgetary decisions in response to climate impacts by—

(A) increasing end user understanding of the impacts of climate change at the local and regional level;

(B) developing actionable climate information and accessible tools and products; and

(C) providing end users with technical assistance.

(2) $500,000,000 to recruit, educate, and train a climate-ready workforce to—

(A) develop and support on-the-ground community-driven projects to enhance climate adaptation and resilience;

(B) support community engagement and participation in monitoring, tracking, and preparing for extreme events;

(C) support local resilience to climate impacts;

(D) conduct community-driven climate science; and

(E) enhance the National Oceanic and Atmospheric Administration's delivery of climate information services, tools, and products, including but not limited to those developed in paragraph (1)(B).

(c) END USERS.—For the purposes of this section, the term ''end users'' shall include—

(1) States;

(2) territories;

(3) Tribes;

(4) local governments;

(5) businesses;

(6) not-for-profit or other organizations; and

(7) individuals.

(d) EXTREME EVENT.—For the purposes of this section, the term ''extreme event'' refers to a time and place in which weather, climate, or environmental conditions, such as temperature, precipitation, drought, or flooding,

rank above a threshold value near the upper or lower ends of the range of historical measurements.

SEC. 90016. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION HIGH PERFORMANCE COMPUTING.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $70,000,000 to remain available until September 30, 2026, to procure and enhance high performance computing, data management, and storage capabilities, and related facilities to enable the National Oceanic and Atmospheric Administration to meet its mission requirements, including related administrative expenses.

SEC. 90017. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION PHASED ARRAY RADAR.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $224,000,000 to remain available until September 30, 2026, to carry out the provisions of the Weather Research and Forecasting Innovation Act (15 U.S.C. 8501 et seq.) for research and development activities to advance the un-

derstanding of phased array radar as a potential future radar technology to improve weather forecasts.

SEC. 90018. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION HURRICANE HUNTER AIRCRAFT.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $1,024,000,000 to remain available until September 30, 2026, to carry out the provisions of the Weather Research and Forecasting Innovation Act (15 U.S.C. 8501 et seq.) for the procurement of hurricane hunters and related expenses, and the development and acquisition of airborne phased array radar, to prepare for fleet readiness by fiscal year 2030.

SEC. 90019. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION UNCREWED SYSTEMS.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $12,000,000 to remain available until September 30, 2026, to support uncrewed systems development and application in support of National Oceanic and Atmospheric

Administration mission priorities including oceanic and atmospheric research and research to operations, including related administrative expenses.

SEC. 90020. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH INFRASTRUCTURE.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $743,000,000 to remain available until September 30, 2026, to conduct deferred maintenance of meteorological, hydrological, climatological, and other oceanic and atmospheric research and development or operational facilities, and to make improvements to scientific equipment and instruments, including related administrative expenses.

SEC. 90021. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SPACE WEATHER.

In addition to amounts otherwise made available, there is appropriated to the National Oceanic and Atmospheric Administration for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $173,000,000, to remain available until September 30, 2026, to carry out the provisions of the Promoting Research and Observations of Space Weather to Improve the

Forecasting of Tomorrow (PROSWIFT) Act (51 U.S.C. 60601 et seq.) by accelerating the development and delivery of instruments and spacecraft, and prioritizing an independent launch for the Space Weather Next Lagrange point 1 mission, including related administrative expenses.

SEC. 90022. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OVERSIGHT.

In addition to amounts otherwise available, there is appropriated to the Department of Commerce for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $5,000,000, to remain available until September 30, 2026, for oversight by the Department of Commerce Office of Inspector General of National Oceanic and Atmospheric Administration activities for which funding is appropriated in this title.

SEC. 90023. NATIONAL SCIENCE FOUNDATION INFRASTRUCTURE.

In addition to amounts otherwise available, there is appropriated to the National Science Foundation for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $3,430,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for research-enabling equipment, facilities, and infrastructure, including mid-scale research infrastructure, Antarctic infrastructure

modernization, related Federal administrative expenses and additional major research equipment and facilities construction projects approved by the National Science Board as required under section 14 of the National Science Foundation Authorization Act of 2002 (42 U.S.C. 1862n-4): *Provided*, That $1,000,000,000 shall be for activities authorized by title II of Public Law 100–570 for academic research facilities modernization, which may include shore-side facilities for academic research vessels, of which $300,000,000 shall be for academic research facilities modernization at historically Black colleges and universities, Hispanic serving institutions, Tribal colleges and universities, and other minority serving institutions.

SEC. 90024. NATIONAL SCIENCE FOUNDATION RESEARCH AND DEVELOPMENT.

In addition to amounts otherwise available, there is appropriated to the National Science Foundation for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $7,550,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, to fund or extend new and existing research awards, scholarships, and fellowships across all science, technology, engineering, and mathematics (STEM) and STEM education disciplines, to fund use-inspired and translational research and develop-

ment awards, entrepreneurial education, and technology transfer activities, to extend existing research awards and scholarships and fellowships to aid in the recovery from COVID-19 related disruptions, and for related administrative expenses: *Provided*, That $400,000,000 shall be available for climate change research, including relating to wildfires: *Provided further*, That $700,000,000 shall be available for research and related activities at historically Black colleges and universities, Tribal colleges and universities, Hispanic serving institutions, and other minority serving institutions.

SEC. 90025. NATIONAL SCIENCE FOUNDATION OVERSIGHT.

In addition to amounts otherwise available, there is appropriated to the Office of Inspector General of the National Science Foundation for fiscal year 2022, out of any money in the Treasury not otherwise appropriated, $50,000,000, to remain available until September 30, 2031, except that no amounts may be expended after September 30, 2031, for oversight, investigations, and audits of programs, grants, and projects carried out by the National Science Foundation using funds under this title.

SEC. 90026. WAGE RATE REQUIREMENTS.

(a) IN GENERAL.—Notwithstanding any other provision of law, all laborers and mechanics employed by contractors and subcontractors on any project funded directly

or assisted in whole or in part by the Federal Government pursuant to this title shall be paid wages at rates not less than those prevailing on projects of a similar character in the locality, as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the ''Davis-Bacon Act'').

(b) AUTHORITY.—With respect to the labor standards specified in paragraph (1), the Secretary of Labor shall have the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (64 Stat. 1267; 5 U.S.C. App.) and section 3145 of title 40, United States Code.

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