115TH CONGRESS } HOUSE OF REPRESENTATIVES { REPORT
2d Session } { 115–

ENERGY AND WATER DEVELOPMENT APPROPRIATIONS BILL, 2019

____ , 2018.—Committed to the Committee of the Whole House on the State of the Union and ordered to be printed

Mr. SIMPSON, from the Committee on Appropriations, submitted the following

R E P O R T

[To accompany H.R. ____]

The Committee on Appropriations submits the following report in explanation of the accompanying bill making appropriations for energy and water development for the fiscal year ending September 30, 2019, and for other purposes.

INDEX TO BILL AND REPORT

28–042

SUMMARY OF ESTIMATES AND RECOMMENDATIONS

The Committee has considered budget estimates, which are contained in the Budget of the United States Government, Fiscal Year 2019. The following table summarizes appropriations for fiscal year 2018, the budget estimates, and amounts recommended in the bill for fiscal year 2019.

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Title I, Department of Defense - Civil	6,827,000	4,784,583	7,278,000	+451,000	+2,493,417
Title II, Department of the Interior	1,480,000	1,057,008	1,555,000	+75,000	+497,992
Title III, Department of Energy	34,520,049	30,146,071	35,494,251	+974,202	+5,348,180
Title IV, Independent Agencies	391,455	352,778	423,757	+32,302	+70,979
Subtotal	43,218,504	36,340,440	44,751,008	+1,532,504	+8,410,568
Scorekeeping adjustments	-18,504	185,992	-51,008	-32,504	-237,000
Grand total for the bill	43,200,000	36,526,432	44,700,000	+1,500,000	+8,173,568

INTRODUCTION

The Energy and Water Development Appropriations bill for fiscal year 2019 totals $44,700,000,000, $1,500,000,000 above the amount appropriated in fiscal year 2018 and $8,173,568,000 above the budget request. Total defense funding is $22,300,000,000, $500,000,000 above the amount appropriated in fiscal year 2018 and $408,100,000 above the budget request. Total non-defense funding is $22,400,000,000, $1,000,000,000 above the amount appropriated in fiscal year 2018 and $7,765,468,000 above the budget request.

Title I of the bill provides $7,278,000,000 for the Civil Works programs of the U.S. Army Corps of Engineers, $451,000,000 above fiscal year 2018 and $2,493,417,000 above the budget request. Total funding for activities eligible for reimbursement from the Harbor Maintenance Trust Fund is estimated at $1,600,000,000, which is an increase of $200,000,000 above fiscal year 2018 and $635,000,000 above the budget request. The bill makes use of all estimated annual revenues from the Inland Waterways Trust Fund.

Title II provides $1,555,000,000 for the Department of the Interior and the Bureau of Reclamation, $75,000,000 above fiscal year 2018 and $497,992,000 above the budget request. The Committee recommends $1,542,000,000 for the Bureau of Reclamation, $72,500,000 above fiscal year 2018 and $492,975,000 above the budget request. The Committee recommends $13,000,000 for the Central Utah Project, $2,500,000 above fiscal year 2018 and $5,017,000 above the budget request.

Title III provides $35,494,251,000 for the Department of Energy, $974,202,000 above fiscal year 2018 and $5,348,180,000 above the budget request. Funding for the National Nuclear Security Administration (NNSA), which includes nuclear weapons activities, defense nuclear nonproliferation, naval reactors, and federal salaries and expenses, is $15,313,147,000, $644,195,000 above fiscal year 2018 and $222,097,000 above the budget request.

Funding for energy programs within the Department of Energy, which includes basic science research and the applied energy programs, is $13,421,584,000, $503,535,000 above fiscal year 2018 and $4,909,080,000 above the budget request.

Environmental management activities—non-defense environmental cleanup, uranium enrichment decontamination and decommissioning, and defense environmental cleanup—are funded at $6,869,220,000, $257,228,000 below fiscal year 2018 and $267,854,000 above the budget request.

The net amount appropriated for the Power Marketing Administrations is provided at the requested levels.

Title IV provides $423,757,000 for several Independent Agencies, $32,302,000 above fiscal year 2018 and $70,979,000 above the budget request. Net funding for the Nuclear Regulatory Commission is $191,664,000, $60,059,000 above fiscal year 2018 and $36,379,000 above the budget request.

OVERVIEW OF THE RECOMMENDATION

The Committee recommendation prioritizes the most critical inherently federal responsibilities of this bill: the national defense,

the maintenance of our nation's waterways, and ensuring the resilience and security of our electricity infrastructure. Strong support is included for basic science programs, which provide the foundation for the new energy technologies that are vital to maintaining our global competitiveness and ensuring our country's long-term prosperity, but that are often too high-risk to receive the attention of the private sector. The recommendation provides targeted resources for applied energy research and development activities to improve and extend the performance of existing energy sources and accelerate the adoption of new technologies. The recommendation also recognizes the importance of the federal government's responsibility to dispose of nuclear waste and clean up the legacy of five decades of nuclear weapons production and government-sponsored nuclear energy research.

NATIONAL DEFENSE PROGRAMS

As in previous years, the Committee considers the national defense programs run by the National Nuclear Security Administration (NNSA) to be the Department of Energy's top priority. The recommendation strongly supports the Department's proposals to modernize the nuclear weapons stockpile, increase investment in the NNSA's infrastructure, prevent the proliferation of nuclear materials, and provide for the needs of the naval nuclear propulsion program.

INVESTMENTS IN INFRASTRUCTURE

The water resource infrastructure funded by the recommendation is a critical component of ensuring a robust national economy and of supporting American competitiveness in international markets. The Corps is responsible for keeping our federal waterways open for business. The Corps also has been instrumental in reducing the risk of flooding for public safety, businesses, and much of this country's food-producing lands. The Bureau of Reclamation supplies reliable water to approximately ten percent of the country's population and to much of its fertile agricultural lands. Both agencies make significant contributions to national electricity production through hydropower facilities.

The U.S. marine transportation industry supports $2,000,000,000,000 in commerce and creates employment for more than 13 million people. As the agency responsible for our nation's federal waterways, the Corps maintains 1,067 harbors and 25,000 miles of commercial channels serving 40 states. The maintenance of these commercial waterways is directly tied to the ability of this country to ship its manufactured and bulk products, as well as to compete with the ports of neighboring countries for the business of ships arriving from around the world. As a primary supporter of America's waterway infrastructure, the Corps is ensuring that the nation has the tools to maintain a competitive edge in the global market. This recommendation makes key changes to the budget request to ensure that the Corps has the resources to continue to support America's shipping infrastructure.

The flood protection infrastructure that the Corps builds or maintains reduces the risk of flooding to people, businesses, and other public infrastructure investments. In fact, the average an-

nual damages prevented by Corps projects over fiscal years 2007–2016 was $67,600,000,000. Between 1928 and 2016, each inflation-adjusted dollar invested in these projects prevented $8.91 in damages. The properties and investments protected by the Corps infrastructure would often be flooded without that infrastructure, destroying homes, businesses, and many valuable acres of cropland.

The Bureau of Reclamation's water infrastructure is a critical component of the agricultural productivity of this country. These facilities deliver water to one of every five western farmers resulting in approximately 10 million acres of irrigated land that produces 60 percent of the nation's vegetables and 25 percent of its fruits and nuts. Additionally, these facilities deliver water to more than 31 million people for municipal, rural, and industrial uses. Without these dams and water supply facilities, American agricultural producers in the West would not be able to access reliable, safe water for their families and their businesses and many municipal and industrial users would face critical water shortages.

The Corps and Reclamation are the nation's largest and second largest producers of hydropower, respectively. Combined these federal hydropower facilities generate approximately 115 billion kilowatt-hours annually. Gross revenues from the sale of this power reach nearly $6,000,000,000 annually.

NATIONAL ENERGY POLICY

The Department of Energy and its National Laboratory system have helped to lay the foundation for the technological advances driving the energy market today. Production breakthroughs for every energy generation source can trace their origins back to research and development supported by the Department. As the energy market continues to change, the Department's support for research and development in all energy sources remains critical.

The Committee provides funding in support of an "all of the above" energy strategy designed to take advantage and utilize all sources of American-made energy. Funding for fossil and nuclear sources, which provide 83 percent of all electricity generated in the nation, is targeted to ensure the safe and efficient use of the nation's critical base load energy generation sources. Funding for renewable energy sources, which provide 17 percent of the nation's electricity, supports continued investments in research and development to advance technological innovations. This strategy provides the correct balance to enable full use of our nation's abundant fossil resources while laying the foundation for developing future energy sources.

The success of these innovations depends on a reliable and resilient electric grid infrastructure. The nation's electric grid was built to handle a different energy reality than the one we face today. Weather events, cyberattacks, and an increasing diversity of energy sources must be addressed to guarantee the continued operation of the electric grid. The Committee provides strong support to ensure the nation's electric grid remains secure.

The Committee continues its long-standing support for the investment of taxpayer funds across the spectrum of all energy technologies. A national energy policy can only be successful if it maintains stability while planning for long-term strategic goals of energy security, independence, and prosperity for the nation. The

Committee makes strategic choices, recommending a balanced approach to advancing research and development in all energy technologies and supporting a robust electric grid.

CONGRESSIONAL DIRECTION

Program, Project, or Activity.—The term "program, project, or activity" shall include the most specific level of budget items identified in the Energy and Water Development and Related Agencies Appropriations Act, 2019 and the Committee report accompanying this Act.

Performance Measures.—The Committee directs each of the agencies funded by this Act to comply with title 31 of the United States Code, including the development of their organizational priority goals and outcomes such as performance outcome measures, output measures, efficiency measures, and customer service measures.

Offsetting Collections.—The Committee directs each of the agencies funded by this Act to continue to report any funds derived by the agency from non-federal sources, including user charges and fines that are authorized by law, to be retained and used by the agency or credited as an offset in annual budget submissions.

Regional Councils.—The Committee encourages all federal agencies to consider including regional councils and councils of government as eligible entities in competitions for federal funding when local governments or non-profit agencies are eligible.

Digital Accountability and Transparency Act.—The Committee supports the requirements of the Digital Accountability and Transparency Act of 2014 as identified in the budget request.

COMMITTEE OVERSIGHT INITIATIVES

The highest priority mission of any federal agency is to be an effective steward of taxpayer dollars. Any waste, fraud, or abuse of taxpayer dollars is unacceptable. The Committee uses hearings, reviews by the Government Accountability Office, the Committee on Appropriations' Surveys and Investigations staff, and its annual appropriations Act, including the accompanying report, to promote strong oversight of the agencies under its jurisdiction, with an emphasis on the U.S. Army Corps of Engineers, the Bureau of Reclamation, and the Department of Energy.

The recommendation continues the Committee's responsibility to conduct in-depth oversight into all activities funded in this bill. Each agency shall designate a specific point of contact to track each report required in the bill and ensure its timely production and delivery.

A summary of the major oversight efforts in the bill is provided below.

Agency/Account	Requirement
Energy and Water	Direction on performance measures
Army Corps of Engineers	Guidance on budget structure
Army Corps of Engineers	Guidance on apportionment
Army Corps of Engineers	Direction on Principles and Guidelines
Army Corps of Engineers	Direction on 2019 work plan submission
Army Corps of Engineers	Direction on new starts
Army Corps of Engineers	Direction on work related to Asian Carp
Army Corps of Engineers/Investigations	Guidance on specific studies
Army Corps of Engineers/Investigations	Guidance on allocating additional funding

Agency/Account	Requirement
Army Corps of Engineers/Construction	Guidance on allocating additional funding
Army Corps of Engineers/Construction	Direction on management of the Continuing Authorities Program
Army Corps of Engineers/Construction	Direction on funding of pilot projects
Army Corps of Engineers/Mississippi River and Tributaries.	Guidance on allocating additional funding
Army Corps of Engineers/Operation and Maintenance.	Guidance on specific projects
Army Corps of Engineers/Operation and Maintenance.	Guidance on allocating additional funding
Army Corps of Engineers/Operation and Maintenance.	Direction on levee safety initiatives
Army Corps of Engineers/FUSRAP	Guidance on investigation and study at former Sylvania site
Army Corps of Engineers/Expenses	Direction on alternative financing
Army Corps of Engineers/General Provisions	Reprogramming requirements
Army Corps of Engineers/General Provisions	Restriction on use of continuing contracts
Army Corps of Engineers/General Provisions	Restriction on requiring permits for the discharge of dredged or fill material for certain agricultural activities
Army Corps of Engineers/General Provisions	Direction on a rule regarding federal jurisdiction under the Clean Water Act
Bureau of Reclamation	Direction on reconsultation activities under the Endangered Species Act
Bureau of Reclamation/Water and Related Resources.	Guidance on allocating additional funding
Bureau of Reclamation/General Provisions	Reprogramming requirements
Department of Energy	Guidance on research and development policy
Department of Energy	Guidance on Electricity Delivery and Energy Reliability reorganization
Department of Energy	Direction on Working Capital Fund
Department of Energy	Report on alleviation of poverty
Department of Energy	Direction on workplace diversity
Department of Energy	Direction on Public Access Plan
Department of Energy	GAO investigation of improper payment reporting
Department of Energy	Plan for GAO High Risk List removal
Department of Energy	Direction on commonly recycled paper
Department of Energy	Direction on educational activities
Department of Energy	Report on General Plant Projects
Department of Energy	Direction on budget requests for General Plant Projects
Department of Energy	Direction on reprogrammings and transfers
Department of Energy/Energy Efficiency	Direction on a zero emissions energy credit report
Department of Energy/Energy Efficiency	Guidance on Energy Star
Department of Energy/Energy Efficiency	Report on hyperloop transportation systems
Department of Energy/Energy Efficiency	Direction on the distribution of Weatherization Assistance Program funds
Department of Energy/Energy Delivery	Report on battery technologies
Department of Energy/Energy Delivery	Guidance on the Grid Modernization Laboratory Consortium
Department of Energy/Nuclear	Report on technology use in nuclear waste remediation
Department of Energy/Fossil	Direction on coal research and development
Department of Energy/Fossil	Direction on NETL sites
Department of Energy/Fossil	Report on the Solid Oxide Fuel Cell Program
Department of Energy/Fossil	Direction on crude oil by rail
Department of Energy/UED&D	Prohibition on uranium bartering for cleanup
Department of Energy/Science	Report on SBIR and STTR grants
Department of Energy/Science	Report on exascale deployment plan
Department of Energy/Nuclear Waste Disposal	Direction on Yucca Mountain licensing process
Department of Energy/ARPA-E	Direction on disbursement of funds
Department of Energy/Departmental Administration.	Direction on scructure of future budget requests
Department of Energy/Departmental Administration.	Direction on renewable fuel standards
NNSA	Prohibition on Institutional Plant Projects
NNSA	Report on certain personnel costs
NNSA/Weapons	Guidance on budget requests for new nuclear weapons
NNSA/Weapons	Report on plutonium infrastructure
NNSA/Weapons	Report on comparative warhead program costs
NNSA/Weapons	Direction on MIE project reporting
NNSA/Weapons	Direction on full cost recovery for ICF
NNSA/Weapons	Direction on budgeting for high performance computing
NNSA/Weapons	Direction on incremental facility operating costs
NNSA/Weapons	Plan to expedite Mobile Guard Transporter
NNSA/Nonproliferation	Direction on new nonproliferation projects in Russia
NNSA/Nonproliferation	Direction on nonproliferation R&D budget structure

Agency/Account	Requirement
NNSA/Nonproliferation	Prohibition on funding for ATR and HFIR conversion
NNSA/Federal Salaries	Direction on personnel and potential consolidation
Department of Energy/Defense Cleanup	Requirement for construction project data sheet submission
Department of Energy/Defense Cleanup	Report on tank waste demonstration project
Department of Energy/Defense Cleanup	Direction on nuclear quality assurance programs
Department of Energy/Defense Cleanup	Direction on resuming construction project activities
Department of Energy/Defense Cleanup	Direction on Waste Treatment Plant budget structure
Department of Energy/Defense Cleanup	Guidance on cost sharing arrangements at Savannah River
Department of Energy/Defense Cleanup	Reporting on security system upgrade project details
Department of Energy/Other Defense Activities	Direction on nuclear facilities seismic research activities
Department of Energy/Federal Energy Regulatory Commission.	Report on electric transmission system resiliency
Department of Energy/General Provisions	Reprogramming requirements
Department of Energy/General Provisions	Requirement for oversight of high hazard nuclear facilities construction
Department of Energy/General Provisions	Prohibition on funds without independent cost estimates
Department of Energy/General Provisions	Restriction of certain activities in the Russian Federation
Department of Energy/General Provisions	Guidance on Strategic Petroleum Reserve activities
Department of Energy/General Provisions	Prohibition on use of MOX funds and notification requirements
Department of Energy/General Provisions	Requirements for releases from Strategic Petroleum Reserve
Nuclear Regulatory Commission	Guidance on reporting of salaries and expenses
Nuclear Regulatory Commission	Guidance on regulatory framework
Nuclear Regulatory Commission	Report on accident tolerant fuel
Nuclear Regulatory Commission	Report on transition to digital systems
Nuclear Regulatory Commission	Direction on rulemaking process and activities
Nuclear Regulatory Commission	Report on licensing goals and right-sizing commitments
Independent Agencies/General Provisions	Requirement for NRC to comply with Congressional requests
Independent Agencies/General Provisions	Reprogramming requirements for the NRC
General Provisions	Prohibition on funds to influence congressional action
General Provisions	Consolidation of transfer authorities
General Provisions	Prohibition of funds in contravention of Executive Order 12898
General Provisions	Prohibition of funds for computer networks that don't block pornography
General Provisions	Prohibition of funds to further implement EO 13547
General Provisions	Prohibition of funds related to operation of certain hydroelectric dams
General Provisions	Prohibition of funds to remove or close federally owned or operated dams
General Provisions	Prohibition of funds to close Yucca Mountain application

TITLE I—CORPS OF ENGINEERS—CIVIL

DEPARTMENT OF THE ARMY

CORPS OF ENGINEERS—CIVIL

INTRODUCTION

The Energy and Water Development Appropriations Act funds the Civil Works missions of the Army Corps of Engineers (Corps). This program is responsible for activities in support of coastal and inland navigation, flood and coastal storm damage reduction, environmental protection and restoration, hydropower, recreation, water supply, and disaster preparedness and response. The Corps also performs regulatory oversight of navigable waters. Approximately 22,000 civilians and almost 300 military personnel located in eight Division offices and 38 District offices work to carry out the Civil Works program.

BUDGET STRUCTURE CHANGES

The fiscal year 2019 budget request for the Corps of Engineers proposed numerous structure changes, including creation of two new accounts (Harbor Maintenance Trust Fund and Inland Waterways Trust Fund) and the shifting of a variety of studies and projects from one account to another. The Committee rejects all such proposed changes and instead funds all activities in the ac-

counts in which funding has traditionally been provided. All projects remain at the funding levels included in the budget request, just in different accounts than proposed. In particular:

- Projects proposed for funding in the Harbor Maintenance Trust Fund account in the budget request have been transferred to the Construction, Mississippi River and Tributaries, and Operation and Maintenance accounts, as appropriate;
- Projects proposed for funding in the Inland Waterways Trust Fund account in the budget request have been transferred to the Construction account;
- Dredged material management plans, proposed in the Investigations account in the budget request, have been transferred to the Operation and Maintenance account;
- Dam safety modification studies, proposed in the Investigations account in the budget request, have been transferred to the Dam Safety and Seepage/Stability Correction Program within the Construction account;
- Dam Safety and Seepage/Stability Correction Program management costs, proposed in the Expenses account in the budget request, have been transferred to the Program within the Construction account; and
- Sand mitigation projects, proposed in the Harbor Maintenance Trust Fund account in the budget request, have been transferred to the Construction account.

Additionally, the Poplar Island, Maryland, beneficial use of dredged material project has been re-categorized as within the environmental restoration business line as is appropriate and as was the case in previous years.

For any fiscal year, if the Corps proposes budget structure changes, the proposal shall be accompanied by a display of the funding request in the traditional budget structure.

APPORTIONMENT UNDER A CONTINUING RESOLUTION

For the purposes of the continuing resolutions to start fiscal year 2018, the Office of Management and Budget changed the long-standing policy by which funding is apportioned to the Civil Works program of the Corps of Engineers. Under the new policy, funding within an individual account was apportioned separately for amounts from the general fund of the Treasury and from various trust funds.

The Committee has long intended the Corps to have the flexibility to address projects most in need of funding under a continuing resolution. The creation of artificial accounting distinctions has the potential to cause serious impediments to the efficient and effective implementation of the Civil Works program. For example, work on many navigation projects is limited by environmental or other regulatory windows. Further limitations imposed by separately apportioning Harbor Maintenance Trust Fund monies could cause serious disruptions to the economic activity that depends on these navigation channels.

For these reasons, the Committee rejects the change in apportionment policy and directs the Administration to follow the previous policy during any continuing resolutions that may occur in future fiscal years.

DEEP-DRAFT NAVIGATION

The Committee remains mindful of the evolving infrastructure needs of the nation's ports. Meeting these needs—including deeper drafts to accommodate the move towards larger ships—will be essential if the nation is to remain competitive in international markets and to continue advancing economic development and job creation domestically.

Investigations and construction of port projects, including the deepening of existing projects, are cost-shared between the federal government and non-federal sponsors, often local or regional port authorities. The operation and maintenance of these projects are federal responsibilities and are funded as reimbursements from the Harbor Maintenance Trust Fund (HMTF), which is supported by an ad valorem tax on the value of imported and domestic cargo. Expenditures from the trust fund are subject to annual appropriations. The balance in the HMTF at the beginning of fiscal year 2019 is estimated to be approximately $9,416,000,000.

The Water Resources Reform and Development Act (WRRDA) of 2014 included target annual appropriations levels for use of HMTF receipts and the Water Resources Development Act (WRDA) of 2016 amended those levels. The Committee remains committed to providing the maximum practicable amount of funding for HMTF-reimbursable activities consistent with annual allocations and after evaluating funding requirements for other priority activities within the Civil Works program.

For fiscal year 2019, the Committee provides an estimated $1,600,000,000 for HMTF-related activities, $200,000,000 more than fiscal year 2018, $635,000,000 above the budget request, and $160,000,000 above the annual target. This funding will enable the Corps to make significant progress on the backlog of dredging needs.

INLAND WATERWAYS SYSTEM

The nation's inland waterways system—consisting of approximately 12,000 miles of commercially navigable channels and 239 lock chambers—also is essential to supporting the national economy. Freight transported on the inland waterways system includes a significant portion of the nation's grain exports, domestic petroleum and petroleum products, and coal used in electricity generation. Much of the physical infrastructure of the system is aging, however, and in need of improvements. For example, commercial navigation locks typically have a design life of 50 years, yet nearly 60 percent of these locks in the United States are more than 50 years old, with the average age at almost 60 years old.

Capital improvements to the inland waterways system generally are funded 50 percent from the General Treasury and 50 percent from the Inland Waterways Trust Fund (IWTF), while operation and maintenance costs are funded 100 percent from the General Treasury. The IWTF is supported by a tax on barge fuel.

In recent years, the increasing rehabilitation and reconstruction needs and the escalating costs of those projects have far outstripped available revenues in the IWTF. Two statutory changes enacted in fiscal year 2015, however, will lead to the availability of additional revenues to stand as the required cost-share for some

additional work on the inland waterways system. These changes were the reduction in the portion of the costs of the Olmsted Locks and Dam project that is to be derived from the IWTF to 15 percent and the increase in the fuel tax to $0.29 per gallon from $0.20 per gallon.

The Corps is directed to take the preparatory steps necessary to ensure that new construction projects can be initiated as soon as can be supported under the larger capital program (i.e., as ongoing projects approach completion). For fiscal year 2019, the Committee provides appropriations making use of all estimated annual revenues from the IWTF. The final program level will depend on project-specific allocations to be made by the Corps. The Committee also allocates $50,000,000 above the budget request for additional operation and maintenance activities on the inland waterways.

PRINCIPLES AND REQUIREMENTS

Concerns persist that the effort to update the Water Resources Principles and Guidelines did not proceed consistent with the language or intent of section 2031 of the Water Resources Development Act of 2007. No funds provided to the Corps of Engineers shall be used to develop or implement rules or guidance to support implementation of the final Principles and Requirements for Federal Investments in Water Resources released in March 2013 or the final Interagency Guidelines released in December 2014. The Corps shall continue to use the document dated March 10, 1983, and entitled "Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies" during the fiscal year period covered by the Energy and Water Development Appropriations Act for 2019.

FORMAT OF FUNDING PRIORITIES

Traditionally, the President requested and the Congress appropriated funds for the Civil Works program on a project-level basis. Taken together, however, these funding decisions indicated programmatic priorities and policy preferences. As with non-project-based programs, the Congress at times disagreed with the priorities stated in the President's budget request and made its priorities known in appropriations bills. Final federal government priorities were established in Acts passed by both chambers of the Congress and signed by the President.

Since the 112th Congress, congressional earmarks, as defined in House rule XXI, have been prohibited. That definition encompasses project-level funding not requested by the President. As a result, the Committee reviewed the historical format of appropriations for the Corps to see if there was a more transparent way to highlight programmatic priorities without abandoning congressional oversight responsibilities. The fiscal year 2012 Act included a modification to the format used in previous years, and that format is continued for fiscal year 2019. As in previous years, the Committee lists in report tables the studies, projects, and activities within each account requested by the President along with the Committee-recommended funding level. To advance its programmatic priorities, the Committee has included additional funding for certain categories of projects. Project-specific allocations within these cat-

egories will be determined by the Corps based on further direction provided in this report.

ADDITIONAL FUNDING

The recommendation includes funding in addition to the budget request to ensure continued improvements to our national economy, public safety, and environmental health that result from water resources projects. This funding is for additional work that either was not included in the budget request or was inadequately budgeted.

The executive branch retains complete discretion over project-specific allocation decisions within the additional funds provided, subject to only the direction here and under the heading "Additional Funding" or "Additional Funding for Ongoing Work" within each of the Investigations, Construction, Mississippi River and Tributaries, and Operation and Maintenance accounts. A study or project may not be excluded from consideration for funding for being "inconsistent with Administration policy." The Administration is reminded that these funds are in addition to the budget request, and Administration budget metrics shall not be a reason to disqualify a study or project from being funded. Voluntary funding in excess of legally required cost shares for studies and projects is acceptable, but shall not be used as a criterion for allocating the additional funding provided or for the selection of new starts. It is expected that all of the additional funding provided will be allocated to specific programs, projects, or activities. The focus of the allocation process shall favor the obligation, rather than expenditure, of funds.

The Corps shall evaluate all studies and projects only within accounts and categories consistent with previous congressional funding. When allocating the additional funding provided in this Act, the Corps shall consider eligibility and implementation decisions under Public Law 115–123 so as to maximize the reduction of risk to public safety and infrastructure and the reduction of future damages from floods and storms nationwide.

A project or study shall be eligible for additional funding within the Investigations, Construction, and Mississippi River and Tributaries accounts if: (1) it has received funding, other than through a reprogramming, in at least one of the previous three fiscal years; (2) it was previously funded and could reach a significant milestone, complete a discrete element of work, or produce significant outputs in fiscal year 2019; or (3) as appropriate, it is selected as one of the new starts allowed in accordance with this Act and the additional direction provided below. Projects with executed Advanced Project Partnership Agreements, or similar agreements, shall be eligible for additional funding provided in this bill. None of the additional funding in any account may be used for any item where funding was specifically denied or for projects in the Continuing Authorities Program. Funds shall be allocated consistent with statutory cost share requirements.

Work Plan.—Not later than 60 days after the enactment of this Act, the Corps shall provide to the Committees on Appropriations of both Houses of Congress a work plan including the following information: (1) a detailed description of the process and criteria used to evaluate studies and projects; (2) delineation of how these funds

are to be allocated; (3) a summary of the work to be accomplished with each allocation, including phase of work; and (4) a list of all studies and projects that were considered eligible for funding but did not receive funding, including an explanation of whether the study or project could have used funds in fiscal year 2019 and the specific reasons each study or project was considered as being less competitive for an allocation of funds.

New Starts.—The recommendation includes six new starts in the Investigations account and five new starts in the Construction account to be distributed across the authorized mission areas of the Corps. Of the new starts in Investigations, two shall be for navigation studies, one shall be for a flood and storm damage reduction study, one shall be for an environmental restoration study, and two shall be for navigation, flood and storm damage reduction, environmental restoration, or multi-purpose studies. Of the new construction starts, one shall be for a navigation project; one shall be for a flood and storm damage reduction project; one shall be for an additional navigation or flood and storm damage reduction project; one shall be for an environmental restoration project; and one shall be for a navigation, flood and storm damage reduction, environmental restoration, or multi-purpose project. No funding shall be used to initiate new programs, projects, or activities in the Mississippi River and Tributaries or Operation and Maintenance accounts.

The Corps is directed to propose a single group of new starts as a part of the work plan. None of the funds may be used for any item for which the Committee has specifically denied funding. The Corps may not change or substitute the new starts selected once the work plan has been provided to the Committees on Appropriations of both Houses of Congress. Each new start shall be funded from the appropriate additional funding line item. Any project for which the new start requirements are not met by the end of fiscal year 2019 shall be treated as if the project had not been selected as a new start; such a project shall be required to compete again for new start funding in future years. As all new starts are to be chosen by the Corps, all shall be considered of equal importance, and the expectation is that future budget submissions will include appropriate funding for all new starts selected.

There continues to be confusion regarding the executive branch's policies and guidelines regarding which studies and projects require new start designations. Therefore, the Corps is directed to notify the Committees on Appropriations of both Houses of Congress at least 7 days prior to execution of an agreement for construction of any project except environmental infrastructure projects and projects under the Continuing Authorities Program. Additionally, the Committee reiterates and clarifies previous congressional direction as follows. Neither study nor construction activities related to individual projects authorized under section 1037 of the WRRDA of 2014 shall require a new start or new investment decision; these activities shall be considered ongoing work. No new start or new investment decision shall be required when moving from feasibility to preconstruction engineering and design (PED). A new start designation shall be required to initiate construction of individually-authorized projects funded within programmatic line items. No new start or new investment decision shall be required to initiate work

on a separable element of a project when construction of one or more separable elements of that project was initiated previously; it shall be considered ongoing work. A new construction start shall not be required for work undertaken to correct a design deficiency on an existing federal project; it shall be considered ongoing work.

In addition to the priority factors used to allocate all additional funding provided in the Investigations account, the Corps should give careful consideration to the out-year budget impacts of the studies selected and to whether there appears to be an identifiable local sponsor that will be ready and able to provide, in a timely manner, the necessary cost share for the feasibility and PED phases. The Corps is reminded that the flood and storm damage reduction and the environmental restoration mission areas can include instances where non-federal sponsors are seeking assistance with flood control and unauthorized discharges from permitted wastewater treatment facilities and that the navigation mission area includes work in remote and subsistence harbor areas.

In addition to the priority factors used to allocate all additional funding provided in the Construction account, the Corps also shall consider the out-year budget impacts of the selected new starts; and the cost sharing sponsor's ability and willingness to promptly provide the cash contribution (if any), as well as required lands, easements, rights-of-way, relocations, and disposal areas. When considering new construction starts, only those that can execute a project cost sharing agreement not later than August 31, 2019, shall be chosen.

To ensure that the new construction starts are affordable and will not unduly delay completion of any ongoing projects, the Secretary is required to submit to the Committees on Appropriations of both Houses of Congress a realistic out-year budget scenario prior to issuing a work allowance for a new start. It is understood that specific budget decisions are made on an annual basis and that this scenario is neither a request for nor a guarantee of future funding for any project. Nonetheless, this scenario shall include an estimate of annual funding for each new start utilizing a realistic funding scenario through completion of the project, as well as the specific impacts of that estimated funding on the ability of the Corps to make continued progress on each previously funded construction project (including impacts to the optimum timeline and funding requirements of the ongoing projects) and on the ability to consider initiating new projects in the future. The scenario shall assume a Construction account funding level at the average of the past three budget requests.

ASIAN CARP

The Secretary of the Army, acting through the Chief of Engineers, shall make every effort to submit to Congress the Report of the Chief of Engineers for the Brandon Road feasibility study according to the original published schedule of February 2019. The Corps is directed to provide quarterly updates to the Committees on Appropriations of both Houses of Congress on the progress and status of efforts to prevent the further spread of Asian carp as well as the location and density of carp populations, including the use of emergency procedures. The Corps shall continue to collaborate with the U.S. Coast Guard, the U.S. Fish and Wildlife Service, the

State of Illinois, and members of the Asian Carp Regional Coordinating Committee to identify and evaluate whether navigation protocols would be beneficial or effective in reducing the risk of vessels inadvertently carrying aquatic invasive species, including Asian carp, through the Brandon Road Lock and Dam in Joliet, Illinois. Any findings of such an evaluation shall be included in the quarterly briefings to the Committees. The Corps is further directed to implement protocols shown to be effective at reducing the risk of entrainment without jeopardizing the safety of vessels and crews. The Corps and other federal and state agencies are conducting ongoing research on potential solutions.

AGING WATERWAY INFRASTRUCTURE

The Committee recognizes the extraordinary implications to the local, regional, and national economy, as well as national security due to aging waterway infrastructure. The Committee urges the Corps to complete feasibility studies for ongoing deep draft lock modernization or replacement projects. In these studies, the Corps is encouraged to include national and regional economic analyses, taking into account the unique movement of the commodities and the value-added in the supply chain.

CONGRESSIONAL DIRECTION AND REPROGRAMMING

To ensure that the expenditure of funds in fiscal year 2019 is consistent with congressional direction, to minimize the movement of funds, and to improve overall budget execution, the bill carries a legislative provision outlining the circumstances under which the Corps may reprogram funds.

COMMITTEE RECOMMENDATION

The Committee recommends $7,278,000,000 for the Corps, $451,000,000 above fiscal year 2018 and $2,493,417,000 above the budget request.

A table summarizing the fiscal year 2018 enacted appropriation, the fiscal year 2019 budget request, and the Committee-recommended levels is provided below:

(Dollars in thousands)

Account	FY 2018 enacted	FY 2019 request	Cmte. rec.
Investigations	$123,000	$82,000	$128,000
Construction	2,085,000	871,733	2,323,000
Mississippi River and tributaries	425,000	244,735	430,000
Operation and maintenance	3,630,000	2,076,733	3,820,000
Regulatory program	200,000	200,000	200,000
FUSRAP	139,000	120,000	150,000
Flood control and coastal emergencies	35,000	27,000	35,000
Expenses	185,000	187,000	187,000
Office of the Assistant Secretary of the Army for Civil Works	5,000	5,000	5,000
Harbor Maintenance Trust Fund	– – –	965,132	– – –
Inland Waterways Trust Fund	– – –	5,250	– – –
Total, Corps of Engineers—Civil	6,827,000	4,784,583	7,278,000

INVESTIGATIONS

Appropriation, 2018	$123,000,000
Budget estimate, 2019	82,000,000
Recommended, 2019	128,000,000
Comparison:	
Appropriation, 2018	+5,000,000
Budget estimate, 2019	+46,000,000

This appropriation funds studies to determine the need for, the engineering and economic feasibility of, and the environmental and social suitability of solutions to water and related land resource problems; preconstruction engineering and design; data collection; interagency coordination; and research.

The budget request for this account and the approved Committee allowance are shown on the following table:

CORPS OF ENGINEERS - INVESTIGATIONS
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
ALABAMA		
BLACK WARRIOR AND TOMBIGBEE RIVERS, AL	100	--- ^
GULF INTRACOASTAL WATERWAY, AL	250	--- ^
CALIFORNIA		
EAST SAN PEDRO BAY ECOSYSTEM RESTORATION, CA	298	298
ILLINOIS		
INTERBASIN CONTROL OF GREAT LAKES-MISSISSIPPI RIVER AQUATIC NUISANCE SPECIES, IL, IN, OH & WI	200	200
INDIANA		
MISSISSINEWA LAKE, IN	1,500	--- ^
IOWA		
GRAND RIVER BASIN, IA & MO	100	100
NEW MEXICO		
RIO GRANDE, SANDIA PUEBLO TO ISLETA PUEBLO, NM	825	825
NEW YORK		
BUFFALO HARBOR, NY	300	--- ^
HUDSON RIVER HABITAT RESTORATION, NY	355	355
OHIO		
CLEVELAND HARBOR, OH	350	--- ^
DELAWARE LAKE, OH	750	--- ^
OREGON		
COLUMBIA RIVER TREATY 2024 IMPLEMENTATION, OR & WA	10,265	--- ^
COUGAR LAKE, OR	1,500	--- ^

CORPS OF ENGINEERS - INVESTIGATIONS
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
HILLS CREEK LAKE, OR	1,500	--- ^
LOOKOUT POINT LAKE, OR	1,500	--- ^
TEXAS		
COASTAL TEXAS PROTECTION AND RESTORATION STUDY, TX	2,675	2,675
CORPUS CHRISTI SHIP CHANNEL, TX	250	--- ^
GIWW - BRAZOS RIVER FLOODGATES & COLORADO RIVER LOCK, TX	50	50
GRAPEVINE LAKE, TX	1,500	--- ^
HOUSTON SHIP CHANNEL, TX	604	604
MATAGORDA SHIP CHANNEL, TX	200	200
PROCTOR LAKE, TX	1,500	--- ^
VIRGINIA		
ATLANTIC INTRACOASTAL WATERWAY BRIDGE REPLACEMENT AT NORTH LANDING, VA	1,600	1,600
NORFOLK HARBOR, VA	300	--- ^
SUBTOTAL, PROJECTS LISTED UNDER STATES	28,472	6,907
REMAINING ITEMS		
ADDITIONAL FUNDING		
FLOOD AND STORM DAMAGE REDUCTION	---	7,500
FLOOD CONTROL	---	5,000
SHORE PROTECTION	---	2,250
NAVIGATION	---	10,323
COASTAL AND DEEP-DRAFT	---	6,500
INLAND	---	6,500
OTHER AUTHORIZED PROJECT PURPOSES	---	6,750
ENVIRONMENTAL RESTORATION OR COMPLIANCE	---	3,000
ACCESS TO WATER DATA	360	360
AUTOMATED INFORMATION SYSTEMS SUPPORT TRI-CADD	250	250
COASTAL FIELD DATA COLLECTION	1,000	1,000
COMMITTEE ON MARINE TRANSPORTATION SYSTEMS	50	50
COORDINATION WITH OTHER WATER RESOURCE AGENCIES	400	400
DISPOSITION OF COMPLETED PROJECTS	1,000	1,000
ENVIRONMENTAL DATA STUDIES	80	80
FERC LICENSING	100	100
FLOOD DAMAGE DATA	230	230

CORPS OF ENGINEERS - INVESTIGATIONS
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
FLOOD PLAIN MANAGEMENT SERVICES	15,000	19,000
HYDROLOGIC STUDIES	500	500
INTERNATIONAL WATER STUDIES	125	125
INTERAGENCY AND INTERNATIONAL SUPPORT	400	400
INTERAGENCY WATER RESOURCE DEVELOPMENT	100	100
INVENTORY OF DAMS	400	400
NATIONAL FLOOD RISK MANAGEMENT PROGRAM	5,000	5,000
NATIONAL SHORELINE MANAGEMENT STUDY	400	400
PLANNING ASSISTANCE TO STATES	5,000	9,000
PLANNING SUPPORT PROGRAM	3,500	3,500
PRECIPITATION STUDIES	200	200
REMOTE SENSING/GEOGRAPHIC INFORMATION SYSTEM SUPPORT	75	75
RESEARCH AND DEVELOPMENT	16,259	25,000
SCIENTIFIC AND TECHNICAL INFORMATION CENTERS	50	50
SPECIAL INVESTIGATIONS	1,000	1,000
STREAM GAGING	550	550
TRANSPORTATION SYSTEMS	1,000	1,000
TRIBAL PARTNERSHIP PROGRAM	500	3,500
SUBTOTAL, REMAINING ITEMS	53,529	121,093
TOTAL, INVESTIGATIONS	82,001	128,000

^Funded in another account.

Passaic River Basin Mainstem, New Jersey.—The Committee is aware that flooding has long been a problem in the Passaic River Basin. The Committee encourages the Corps to continue to work in coordination with the non-federal sponsor on plans to reduce flooding in the basin, including the reevaluation of the Passaic River Basin Mainstem project. The Corps is directed to brief the Committee not later than 30 days after the enactment of this Act on the current status of this project.

Peckman River, New Jersey.—The Committee is aware of repeated delays with the Peckman River Feasibility Study. The Corps is directed to provide to the Committee quarterly briefings on the current schedule to bring this study to completion, with the first briefing to occur not later than 30 days after the enactment of this Act.

Rahway River Basin (Upper Basin), New Jersey.—The Committee is aware of extended delays with the Rahway River Basin Flood Risk Management Feasibility Study where flooding is of acute concern to the affected communities. The Committee encourages the Corps to continue to work with the non-federal sponsor on plans to reduce flooding caused by the Rahway River in affected areas. The Corps is directed to provide to the Committee quarterly briefings on the current schedule to bring this study to completion, with the first briefing to occur not later than 30 days after the enactment of this Act.

Chacon Creek, Texas.—The Corps has multiple authorities to provide technical assistance to non-federal entities. The Committee encourages the Corps to review these authorities to identify opportunities to help advance the Chacon Creek, Texas, project, for which the Corps executed a feasibility cost sharing agreement in 2004.

Additional Funding.—The Corps is expected to allocate the additional funding provided in this account primarily to specific feasibility and PED phases, rather than to Remaining Items line items as has been the case in previous work plans. When allocating the additional funding provided in this account, the Corps shall consider giving priority to completing or accelerating ongoing studies or to initiating new studies that will enhance the nation's economic development, job growth, and international competitiveness; are for projects located in areas that have suffered recent natural disasters; are for projects that protect life and property; or are for projects to address legal requirements. The Corps shall use these funds for additional work in both the feasibility and PED phases. The agreement includes sufficient additional funding to undertake a significant amount of feasibility and PED work. The Administration is reminded that a project study is not complete until the PED phase is complete. The Corps is reminded that environmental restoration can include projects that address degraded conditions due to prior flood protection work.

Research and Development.—Within available funds, the Corps is encouraged to advance flood and coastal systems research and development, as well as work to evaluate conservation methods to restore riverine ecosystems and to support collaborative research into coastal resilience.

Disposition of Completed Projects.—The Committee supports the budget request for disposition studies pursuant to facilities that closed as a result of Public Law 113–121. The Corps is directed to

provide to the Committee copies of disposition studies upon completion. For Corps facilities that are deemed as excess, the Committee supports the disposal of those facilities through the appropriate General Services Administration process.

Water Resources Priorities Study.—No funding shall be used for this study.

Impacts on Oyster Reefs.—The Committee supports Corps efforts, when conducting or reviewing environmental assessments or environmental impact statements for navigation or coastal restoration projects in areas where oyster reefs exist, to consider water quality and salinity impacts on those reefs and, when appropriate, to mitigate any negative impacts.

Upper Mississippi River-Illinois Waterway System.—Beginning in 2005, more than $59,000,000 in appropriated funds have been allocated for preconstruction engineering and design of improved locks and ecosystem restoration throughout the Upper Mississippi and Illinois Rivers for measures authorized in Title VIII of the Water Resources Development Act of 2007. Unfortunately, the Corps has determined that a Level 3 Economic Re-Evaluation Report (ERR) shall occur before PED can continue. While the Committee disagrees with this conclusion, if the Corps decides to fund such an ERR, the Committee encourages the Corps to complete it not later than January 1, 2020, so that PED can resume in a timely fashion.

Upper Des Plaines River and Tributaries Project.—The Committee is aware that the project area was flooded with record high crests overflowing the Des Plaines River last summer, resulting in damage to more than 3,200 residences. The Committee urges the Corps to cooperate with the non-federal sponsor as it prepares advance work on a number of flood features under Section 204 of the Water Resources Development Act of 1986, as amended.

Lake Cypress, Florida.—The Committee is aware that high rain totals have created a significant sediment flow through the Kissimmee Chain of Lakes resulting in a shoal that has expanded in recent years, located at the end of the C–35 canal in Lake Cypress, Florida. The Committee encourages the Corps to cooperate with state and local officials on this issue.

Flood Control and Wastewater Treatment Facilities.—In fiscal year 2017, the Corps was directed to provide a briefing regarding activities to address concerns about flooding and wastewater treatment facilities. The Committee may have additional direction after that briefing occurs.

Public Law 115–123.—The Corps is encouraged to expedite the completion of investigations undertaken with funds provided pursuant to Public Law 115–123.

Section 1143 Study.—The Corps is encouraged to include in future budget submissions the study of sediment sources authorized in section 1143 of Public Law 114–322.

CONSTRUCTION

Appropriation, 2018	$2,085,000,000
Budget estimate, 2019	871,733,000
Recommended, 2019	2,323,000,000
Comparison:	
Appropriation, 2018	+238,000,000
Budget estimate, 2019	+1,451,267,000

This appropriation funds construction, major rehabilitation, and related activities for water resource projects whose principal purpose is to provide commercial navigation, flood and storm damage reduction, or aquatic ecosystem restoration benefits to the nation. Portions of this account are funded from the Harbor Maintenance Trust Fund and the Inland Waterways Trust Fund.

The budget request for this account and the approved Committee allowance are shown on the following table:

CORPS OF ENGINEERS - CONSTRUCTION
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
CALIFORNIA		
AMERICAN RIVER COMMON FEATURES, NATOMAS BASIN, CA	42,000	42,000
HAMILTON CITY, CA	6,000	6,000
ISABELLA LAKE, CA	118,000	118,000
SANTA ANA RIVER MAINSTEM, CA	15,000	15,000
YUBA RIVER BASIN, CA	35,500	35,500
DELAWARE		
DELAWARE BAY COASTLINE, ROOSEVELT INLET TO LEWES BEACH, DE	---	150 *
FLORIDA		
HERBERT HOOVER DIKE, FL	96,000	96,000
SOUTH FLORIDA ECOSYSTEM RESTORATION, FL	67,500	67,500
GEORGIA		
SAVANNAH HARBOR DISPOSAL AREAS, GA & SC	---	10,500 *
SAVANNAH HARBOR EXPANSION, GA	49,000	49,000
ILLINOIS		
OLMSTED LOCKS AND DAM, OHIO RIVER, IL & KY	29,750	35,000 *
UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO & WI	33,170	33,170
IOWA		
MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & SD	10,000	10,000
KENTUCKY		
ROUGH RIVER LAKE, KY	40,000	40,000
MARYLAND		
ASSATEAGUE, MD	---	600 *
POPLAR ISLAND, MD	---	21,000 *
MASSACHUSETTS		
BOSTON HARBOR, MA	15,105	15,105

CORPS OF ENGINEERS - CONSTRUCTION
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
NEW JERSEY		
CAPE MAY INLET TO LOWER TOWNSHIP, NJ	---	7,200 *
RARITAN RIVER BASIN, GREEN BROOK SUB-BASIN, NJ	5,000	5,000
OREGON		
COLUMBIA RIVER AT THE MOUTH, OR & WA	28,000	28,000
PENNSYLVANIA		
EAST BRANCH CLARION RIVER LAKE, PA	14,000	14,000
TEXAS		
BUFFALO BAYOU AND TRIBUTARIES, TX	11,908	11,908
CORPUS CHRISTI SHIP CHANNEL, TX	13,000	13,000
LEWISVILLE DAM, TX	55,000	55,000
WASHINGTON		
COLUMBIA RIVER FISH MITIGATION, WA, OR & ID (CRFM)	46,000	46,000
MUD MOUNTAIN DAM, WA	25,000	25,000
WEST VIRGINIA		
BLUESTONE LAKE, WV	7,810	7,810
SUBTOTAL, PROJECTS LISTED UNDER STATES	762,743	807,443
REMAINING ITEMS		
ADDITIONAL FUNDING		
FLOOD AND STORM DAMAGE REDUCTION	---	200,000
FLOOD CONTROL	---	180,000
SHORE PROTECTION	---	60,000
NAVIGATION	---	525,067
INLAND WATERWAYS TRUST FUND REVENUES	---	99,750
OTHER AUTHORIZED PROJECT PURPOSES	---	125,000
ENVIRONMENTAL RESTORATION OR COMPLIANCE	---	50,000
ENVIRONMENTAL INFRASTRUCTURE	---	80,000
AQUATIC PLANT CONTROL PROGRAM	---	6,000

CORPS OF ENGINEERS - CONSTRUCTION
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
CONTINUING AUTHORITIES PROGRAM		
AQUATIC ECOSYSTEM RESTORATION (SECTION 206)	1,500	15,000
BENEFICIAL USES DREDGED MATERIAL (SECTION 204)	---	10,000 *
EMERGENCY STREAMBANK AND SHORELINE PROTECTION (SECTION 14)	---	8,000
FLOOD CONTROL PROJECTS (SECTION 205)	500	10,000
MITIGATION OF SHORE DAMAGES (SECTION 111)	---	10,000
NAVIGATION PROGRAM (SECTION 107)	---	8,000
PROJECT MODIFICATIONS FOR IMPROVEMENT OF THE ENVIRONMENT (SECTION 1135)	1,000	6,000
SHORE PROTECTION (SECTION 103)	---	5,000
DAM SAFETY AND SEEPAGE/STABILITY CORRECTION PROGRAM	88,655	100,405 *
EMPLOYEES' COMPENSATION	17,000	17,000
INLAND WATERWAYS USERS BOARD - BOARD EXPENSE	60	60
INLAND WATERWAYS USERS BOARD - CORPS EXPENSE	275	275
SUBTOTAL, REMAINING ITEMS	108,990	1,515,557
TOTAL, CONSTRUCTION	871,733	2,323,000

**Includes funds requested in other accounts.*

Murrieta Creek, California.—The Committee is aware that the Corps has been working on a Validation Report to detail a re-scoped project for a more cost-effective flood protection solution while it proceeds with construction. The Committee urges the Corps to finish the Report, as the Corps turns over the completed elements of the project to the local sponsor and constructs Phase IIB of the project.

Success Dam, California.—In the past, the Committee has raised the importance of the Corps moving expeditiously on the project to increase the reservoir capacity and complete the necessary safety reviews of the dam. In a memo dated January 17, 2018, the Dam Senior Oversight Group concluded the Success Reservoir Enlargement Project has negligible risk on the current reservoir infrastructure and approved the project to proceed. The Committee commends the Corps for its work on this project and continues to strongly urge the Corps expeditiously move ahead with the enlargement project, as detailed in House Report 114-91.

South Florida Ecosystem Restoration, Florida.—As in previous years, the Committee provides funding for all study and construction authorities related to Everglades restoration under the line item titled "South Florida Ecosystem Restoration, Florida". This single line item allows the Corps flexibility in implementing the numerous activities underway in any given fiscal year.

Chesapeake Bay Oyster Recovery, Maryland and Virginia.—The Committee urges the Corps to consider species selection for disease resistance and survivability as part of oyster recovery in the Chesapeake Bay and to support development of substrate as a substitute for oyster shell, including competitively awarded contracts for research and development, as appropriate.

New Jersey and New York Harbor Deepening Project.—The Committee is encouraged by the work of the Corps and its local partners to bring the construction of the New Jersey and New York Harbor Deepening Project to completion. This project of national significance is an example of how the Corps and its partners can work together to enhance our national economy.

Caño Martín Peña, Puerto Rico.—The Committee maintains its interest in the Caño Martín Peña environmental restoration project in San Juan, Puerto Rico, and notes the environmental degradation and persistent flooding that disadvantages communities abutting the channel, as evidenced by Hurricanes Irma and Maria. The Corps is encouraged to include appropriate funding for this project in future budget requests. The Corps is directed to report to the Committees on Appropriations of both Houses of Congress not later than 90 days after enactment of this Act on the status of this project.

Additional Funding.—The agreement includes additional funds for projects and activities to enhance the nation's economic growth and international competitiveness. Of the additional funds provided in this account, the Corps shall allocate not less than $5,495,000 to projects with riverfront development components. Of the additional funding provided in this account for flood and storm damage reduction and flood control, the Corps shall allocate not less than $18,000,000 to additional nonstructural flood control projects. Of the additional funds provided in this account for flood and storm damage reduction, navigation, and other authorized project pur-

poses, the Corps shall allocate not less than $15,000,000 to authorized reimbursements for projects with executed project cooperation agreements and that have completed construction or where non-federal sponsors intend to use the funds for additional water resources development activities. Of the additional funding provided in this account for flood and storm damage reduction and flood control, the Corps shall allocate not less than $11,650,000 to continue construction of projects that principally include improvements to rainfall drainage systems that address flood damages. Of the additional funding provided in this account for flood and storm damage reduction and flood control, the Corps shall allocate not less than $10,000,000 to ongoing projects where ongoing construction would benefit from additional funds to avoid induced flooding during construction.

The Corps is reminded that dam safety projects authorized under section 5003 of the Water Resources Development Act of 2007 are eligible to compete for the additional funding provided in this account.

Public Law 115–123 included funding within the Flood Control and Coastal Emergencies account to restore authorized shore protection projects to full project profile. That funding is expected to address most of the current year capability. Therefore, to ensure funding is not directed to where it cannot be used, the agreement includes $60,000,000 for construction of shore protection projects. The Corps is reminded that if additional work can be done, these projects are also eligible to compete for additional funding for flood and storm damage reduction.

When allocating the additional funding provided in this account, the Corps is encouraged to evaluate authorized reimbursements in the same manner as if the projects were being evaluated for new or ongoing construction and shall consider giving priority to the following:

- benefits of the funded work to the national economy;
- extent to which the work will enhance national, regional, or local economic development;
- number of jobs created directly by the funded activity;
- ability to obligate the funds allocated within the fiscal year, including consideration of the ability of the non-federal sponsor to provide any required cost share;
- ability to complete the project, separable element, or project phase with the funds allocated;
- legal requirements, including responsibilities to Tribes;
- for flood and storm damage reduction projects (including authorized nonstructural measures and periodic beach renourishments),
    - population, economic activity, or public infrastructure at risk, as appropriate; and
    - the severity of risk of flooding or the frequency with which an area has experienced flooding;
- for shore protection projects, projects in areas that have suffered severe beach erosion requiring additional sand placement outside of the normal beach renourishment cycle or in which the normal beach renourishment cycle has been delayed;

• for navigation projects, the number of jobs or level of economic activity to be supported by completion of the project, separable element, or project phase;

• for projects cost shared with the Inland Waterways Trust Fund (IWTF), the economic impact on the local, regional, and national economy if the project is not funded, as well as discrete elements of work that can be completed within the funding provided in this line item;

• for other authorized project purposes and environmental restoration or compliance projects, to include the beneficial use of dredged material; and

• for environmental infrastructure projects, projects with the greater economic impact, projects in rural communities, projects in communities with significant shoreline and instances of runoff, projects in or that benefit counties or parishes with high poverty rates, projects in financially distressed municipalities, projects that improve stormwater capture capabilities, and projects that will provide substantial benefits to water quality improvements.

The agreement provides funds making use of all estimated annual revenues in the IWTF. The Corps shall allocate all funds provided in the IWTF Revenues line item along with the statutory cost share from funds provided in the Navigation line item prior to allocating the remainder of funds in the Navigation line item.

Aquatic Plant Control Program.—Of the funding provided, $5,000,000 is for watercraft inspection stations, as authorized by section 1039 of the Water Resources Reform and Development Act of 2014, and $1,000,000 is for related monitoring.

Continuing Authorities Program (CAP).—The Committee continues to support all sections of the Continuing Authorities Program. Funding is provided for eight CAP sections at a total of $72,000,000. This program provides a useful tool for the Corps to undertake small localized projects without the lengthy study and authorization process typical of larger Corps projects. The management of the Continuing Authorities Program should continue consistent with direction provided in previous fiscal years.

Dam Safety and Seepage/Stability Correction Program.—The Committee rejects the budget request proposal regarding Herbert Hoover Dike, which would make funds provided in this program available only if the State of Florida commits certain funds. Consistent with long-standing congressional direction, the Corps may not require funding in excess of legally required cost shares for studies and projects as a criterion for funding decisions. The Corps shall apply these funds to the highest priority projects.

Beneficial Use of Dredged Material Pilot Program.—The Committee supports implementation of the pilot program authorized in section 1122 of the WIIN Act. To date, the Corps has not identified how these pilots would be funded, however. Therefore, the Corps is directed to fund these pilots, if otherwise competitive, under the CAP section 204 line item and the applicable additional funding line items in this account. The Corps shall not use Operation and Maintenance funds provided or allocated to the projects from which the dredged material is generated for costs beyond the costs of the Federal Standard. The Corps shall brief the Committees on Appropriations of both Houses of Congress not later than 60 days after the enactment of this Act on the selection of pilot projects, as well

as the planned activities and cost estimates for each selected pilot project.

Public Law 115–123.—The Corps is encouraged to expedite the completion of projects undertaken with funds provided pursuant to Public Law 115–123.

Public Law 115–123 (LERRDs).—The Corps has authority to perform acquisition of required lands, easements, rights-of-ways, relocations, and disposal areas (LERRDs) on behalf of a non-federal sponsor under certain circumstances. The Committee encourages the Corps to evaluate such requests from non-federal sponsors of projects funded under Public Law 115–123.

MISSISSIPPI RIVER AND TRIBUTARIES

Appropriation, 2018	$425,000,000
Budget estimate, 2019	244,735,000
Recommended, 2019	430,000,000
Comparison:	
Appropriation, 2018	+5,000,000
Budget estimate, 2019	+185,265,000

This appropriation funds planning, construction, and operation and maintenance activities associated with projects to reduce flood damage in the lower Mississippi River alluvial valley below Cape Girardeau, Missouri.

The budget request for this account and the approved Committee allowance are shown on the following table:

CORPS OF ENGINEERS - MISSISSIPPI RIVER AND TRIBUTARIES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
CONSTRUCTION		
CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO & TN	75,847	75,847
MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO & TN	32,885	32,885
ATCHAFALAYA BASIN, FLOODWAY SYSTEM, LA	200	200
OPERATION & MAINTENANCE		
CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO & TN	54,680	54,680
HELENA HARBOR, PHILLIPS COUNTY, AR	---	715 *
INSPECTION OF COMPLETED WORKS, AR	364	364
LOWER ARKANSAS RIVER, NORTH BANK, AR	304	304
LOWER ARKANSAS RIVER, SOUTH BANK, AR	187	187
MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO & TN	8,984	8,984
ST FRANCIS BASIN, AR & MO	5,900	5,900
TENSAS BASIN, BOEUF AND TENSAS RIVERS, AR & LA	2,123	2,123
WHITE RIVER BACKWATER, AR	1,000	1,000
INSPECTION OF COMPLETED WORKS, IL	38	38
INSPECTION OF COMPLETED WORKS, KY	95	95
ATCHAFALAYA BASIN, LA	8,865	8,865
ATCHAFALAYA BASIN FLOODWAY SYSTEM, LA	1,755	1,755
BATON ROUGE HARBOR, DEVIL SWAMP, LA	---	555 *
BAYOU COCODRIE AND TRIBUTARIES, LA	48	48
BONNET CARRE, LA	3,821	3,821
INSPECTION OF COMPLETED WORKS, LA	807	807
LOWER RED RIVER, SOUTH BANK LEVEES, LA	498	498
MISSISSIPPI DELTA REGION, LA	490	490
OLD RIVER, LA	9,246	9,246
TENSAS BASIN, RED RIVER BACKWATER, LA	2,750	2,750
GREENVILLE HARBOR, MS	---	930 *
INSPECTION OF COMPLETED WORKS, MS	135	135
VICKSBURG HARBOR, MS	---	940 *
YAZOO BASIN, ARKABUTLA LAKE, MS	5,509	5,509
YAZOO BASIN, BIG SUNFLOWER RIVER, MS	168	168
YAZOO BASIN, ENID LAKE, MS	5,296	5,296
YAZOO BASIN, GREENWOOD, MS	799	799
YAZOO BASIN, GRENADA LAKE, MS	5,334	5,334
YAZOO BASIN, MAIN STEM, MS	1,201	1,201
YAZOO BASIN, SARDIS LAKE, MS	6,231	6,231
YAZOO BASIN, TRIBUTARIES, MS	901	901
YAZOO BASIN, WILL M WHITTINGTON AUX CHAN, MS	357	357
YAZOO BASIN, YAZOO BACKWATER AREA, MS	538	538

CORPS OF ENGINEERS - MISSISSIPPI RIVER AND TRIBUTARIES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
YAZOO BASIN, YAZOO CITY, MS	737	737
INSPECTION OF COMPLETED WORKS, MO	208	208
WAPPAPELLO LAKE, MO	4,878	4,878
INSPECTION OF COMPLETED WORKS, TN	47	47
MEMPHIS HARBOR, MCKELLAR LAKE, TN	---	2,125 *
SUBTOTAL, PROJECTS LISTED UNDER STATES	243,226	248,491
REMAINING ITEMS		
ADDITIONAL FUNDING FOR ONGOING WORK		
DREDGING	---	5,000
FLOOD CONTROL	---	120,090
OTHER AUTHORIZED PROJECT PURPOSES	---	55,000
COLLECTION AND STUDY OF BASIC DATA (INVESTIGATIONS)	600	600
MAPPING (OPERATION)	819	819
MISSISSIPPI RIVER COMMISSION	90	---
SUBTOTAL, REMAINING ITEMS	1,509	181,509
TOTAL, MISSISSIPPI RIVER AND TRIBUTARIES	244,735	430,000

**Includes funds requested in other accounts.*

Lower Mississippi River Main Stem.—The budget request proposes to consolidate several activities across multiple states into one line item. The Committee does not support this change and instead continues to fund these activities as separate line items.

Additional Funding for Ongoing Work.—When allocating the additional funding provided in this account, the Corps shall consider giving priority to completing or accelerating ongoing work that will enhance the nation's economic development, job growth, and international competitiveness, or are for studies or projects located in areas that have suffered recent natural disasters. While this funding is shown under remaining items, the Corps shall use these funds in investigations, construction, and operation and maintenance, as applicable.

Mississippi River Commission.—No funding is provided for this new line item. The Corps is directed to continue funding the costs of the commission from within the funds provided for activities within the Mississippi River and Tributaries project.

OPERATION AND MAINTENANCE

Appropriation, 2018	$3,630,000,000
Budget estimate, 2019	2,076,733,000
Recommended, 2019	3,820,000,000
Comparison:	
Appropriation, 2018	+190,000,000
Budget estimate, 2019	+1,743,267,000

This appropriation funds operation, maintenance, and related activities at water resource projects the Corps operates and maintains. Work to be accomplished consists of dredging, repair, and operation of structures and other facilities as authorized in various River and Harbor, Flood Control, and Water Resources Development Acts. Related activities include aquatic plant control, monitoring of completed projects, removal of sunken vessels, and the collection of domestic, waterborne commerce statistics. Portions of this account are financed through the Harbor Maintenance Trust Fund.

The budget request for this account and the approved Committee allowance are shown on the following table:

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
ALABAMA		
ALABAMA RIVER LAKES, AL	17,121	17,121
BLACK WARRIOR AND TOMBIGBEE RIVERS, AL	23,336	23,436 *
GULF INTRACOASTAL WATERWAY, AL	7,515	7,765 *
INSPECTION OF COMPLETED WORKS, AL	198	198
MOBILE HARBOR, AL	---	22,240 *
PROJECT CONDITION SURVEYS, AL	---	110 *
SCHEDULING RESERVOIR OPERATIONS, AL	85	85
TENNESSEE - TOMBIGBEE WATERWAY WILDLIFE MITIGATION, AL & MS	1,800	1,800
TENNESSEE - TOMBIGBEE WATERWAY, AL & MS	27,996	27,996
WALTER F GEORGE LOCK AND DAM, AL & GA	8,927	8,927
WATER/ENVIRONMENTAL CERTIFICATION, AL	---	70 *
ALASKA		
ANCHORAGE HARBOR, AK	---	9,265 *
CHENA RIVER LAKES, AK	6,293	6,293
DILLINGHAM HARBOR, AK	---	970 *
HOMER HARBOR, AK	---	770 *
INSPECTION OF COMPLETED WORKS, AK	200	200
NINILCHIK HARBOR, AK	---	600 *
NOME HARBOR, AK	---	2,055 *
PROJECT CONDITION SURVEYS, AK	---	750 *
ARIZONA		
ALAMO LAKE, AZ	3,342	3,342
INSPECTION OF COMPLETED WORKS, AZ	534	534
PAINTED ROCK DAM, AZ	3,086	3,086
SCHEDULING RESERVOIR OPERATIONS, AZ	107	107
WHITLOW RANCH DAM, AZ	935	935
ARKANSAS		
BEAVER LAKE, AR	8,791	8,791
BLAKELY MT DAM, LAKE OUACHITA, AR	9,131	9,131
BLUE MOUNTAIN LAKE, AR	1,870	1,870
BULL SHOALS LAKE, AR	7,761	7,761
DEGRAY LAKE, AR	7,438	7,438
DEQUEEN LAKE, AR	1,433	1,433
DIERKS LAKE, AR	1,506	1,506
GILLHAM LAKE, AR	1,305	1,305
GREERS FERRY LAKE, AR	7,840	7,840
HELENA HARBOR, AR	---	15 *
INSPECTION OF COMPLETED WORKS, AR	646	646

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
MCCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, AR	50,995	50,995	
MILLWOOD LAKE, AR	4,335	4,335	
NARROWS DAM, LAKE GREESON, AR	5,751	5,751	
NIMROD LAKE, AR	2,340	2,340	
NORFORK LAKE, AR	6,134	6,134	
OSCEOLA HARBOR, AR	---	15	*
OUACHITA AND BLACK RIVERS, AR & LA	7,979	7,979	
WHITE RIVER, AR	25	25	
YELLOW BEND PORT, AR	---	100	*
CALIFORNIA			
BLACK BUTTE LAKE, CA	2,620	2,620	
BUCHANAN DAM, HV EASTMAN LAKE, CA	2,104	2,104	
CHANNEL ISLANDS HARBOR, CA	---	6,290	*
COYOTE VALLEY DAM, LAKE MENDOCINO, CA	3,540	3,540	
CRESCENT CITY HARBOR, CA	---	200	*
DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL, CA	7,494	7,494	
FARMINGTON DAM, CA	478	478	
HIDDEN DAM, HENSLEY LAKE, CA	2,182	2,182	
HUMBOLDT HARBOR AND BAY, CA	---	4,510	*
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, CA	10	10	
INSPECTION OF COMPLETED WORKS, CA	3,450	3,450	
ISABELLA LAKE, CA	1,389	1,389	
LOS ANGELES COUNTY DRAINAGE AREA, CA	22,633	22,633	
MERCED COUNTY STREAMS, CA	458	458	
MOJAVE RIVER DAM, CA	2,092	2,092	
MORRO BAY HARBOR, CA	---	2,400	*
NEW HOGAN LAKE, CA	2,878	2,878	
NEW MELONES LAKE, DOWNSTREAM CHANNEL, CA	1,652	1,652	
OAKLAND HARBOR (50 FOOT PROJECT), CA	---	19,076	*
OCEANSIDE HARBOR, CA	---	2,470	*
PINE FLAT LAKE, CA	4,437	4,437	
PROJECT CONDITION SURVEYS, CA	---	1,350	*
REDWOOD CITY HARBOR, CA	---	5,950	*
RICHMOND HARBOR, CA	---	10,145	*
SACRAMENTO RIVER (30 FOOT PROJECT), CA	---	2,300	*
SACRAMENTO RIVER AND TRIBUTARIES (DEBRIS CONTROL), CA	1,095	1,893	*
SACRAMENTO RIVER SHALLOW DRAFT CHANNEL, CA	---	210	*
SAN DIEGO HARBOR, CA	---	4,400	*
SAN FRANCISCO BAY DELTA MODEL STRUCTURE, CA	1,191	1,191	
SAN FRANCISCO HARBOR AND BAY, CA (DRIFT REMOVAL)	---	3,101	*
SAN FRANCISCO HARBOR, CA	---	4,335	*
SAN JOAQUIN RIVER, PORT OF STOCKTON, CA	---	5,000	*
SAN PABLO BAY AND MARE ISLAND STRAIT, CA	---	3,049	*
SANTA ANA RIVER BASIN, CA	12,537	12,537	
SANTA BARBARA HARBOR, CA	---	3,360	*

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
SANTA CRUZ HARBOR, CA	---	15	*
SCHEDULING RESERVOIR OPERATIONS, CA	1,344	1,344	
SUCCESS LAKE, CA	3,543	3,543	
SUISUN BAY CHANNEL, CA	---	3,664	*
TERMINUS DAM, LAKE KAWEAH, CA	2,785	2,785	
VENTURA HARBOR, CA	---	5,370	*
YUBA RIVER, CA	180	1,615	*
COLORADO			
BEAR CREEK LAKE, CO	587	587	
CHATFIELD LAKE, CO	1,889	1,889	
CHERRY CREEK LAKE, CO	6,479	6,479	
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, CO	17	17	
INSPECTION OF COMPLETED WORKS, CO	347	347	
JOHN MARTIN RESERVOIR, CO	4,071	4,071	
SCHEDULING RESERVOIR OPERATIONS, CO	560	560	
TRINIDAD LAKE, CO	1,775	1,775	
CONNECTICUT			
BLACK ROCK LAKE, CT	671	671	
COLEBROOK RIVER LAKE, CT	2,583	2,583	
HANCOCK BROOK LAKE, CT	821	821	
HOP BROOK LAKE, CT	1,285	1,285	
INSPECTION OF COMPLETED WORKS, CT	474	474	
MANSFIELD HOLLOW LAKE, CT	784	784	
NORTHFIELD BROOK LAKE, CT	391	391	
PROJECT CONDITION SURVEYS, CT	---	900	*
STAMFORD HURRICANE BARRIER, CT	572	572	
THOMASTON DAM, CT	1,022	1,022	
WEST THOMPSON LAKE, CT	893	893	
DELAWARE			
INDIAN RIVER INLET & BAY, DE	---	7	*
INSPECTION OF COMPLETED WORKS, DE	70	70	
INTRACOASTAL WATERWAY, DELAWARE RIVER TO CHESAPEAKE BAY, DE & MD	---	12,450	*
INTRACOASTAL WATERWAY, REHOBOTH BAY TO DELAWARE BAY, DE	---	30	*
PROJECT CONDITION SURVEYS, DE	---	200	*
WILMINGTON HARBOR, DE	---	5,491	*
DISTRICT OF COLUMBIA			
INSPECTION OF COMPLETED WORKS, DC	80	80	
POTOMAC AND ANACOSTIA RIVERS, DC (DRIFT REMOVAL)	---	930	*
PROJECT CONDITION SURVEYS, DC	---	30	*

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
FLORIDA		
CANAVERAL HARBOR, FL	---	4,149 *
CENTRAL & SOUTHERN FLORIDA, FL	14,430	15,463 *
INSPECTION OF COMPLETED WORKS, FL	814	814
INTRACOASTAL WATERWAY, JACKSONVILLE TO MIAMI, FL	2,980	2,980
JACKSONVILLE HARBOR, FL	---	6,560 *
JIM WOODRUFF LOCK AND DAM, LAKE SEMINOLE, FL, AL & GA	7,560	7,560
MANATEE HARBOR, FL	---	3,845 *
MIAMI HARBOR, FL	---	6,070 *
OKEECHOBEE WATERWAY, FL	1,229	2,320 *
PALM BEACH HARBOR, FL	---	2,785 *
PANAMA CITY HARBOR, FL	---	55 *
PENSACOLA HARBOR, FL	---	1,390 *
PORT EVERGLADES HARBOR, FL	---	5,850 *
PROJECT CONDITION SURVEYS, FL	---	1,275 *
REMOVAL OF AQUATIC GROWTH, FL	---	3,290 *
SCHEDULING RESERVOIR OPERATIONS, FL	132	132
TAMPA HARBOR, FL	---	980 *
WATER/ENVIRONMENTAL CERTIFICATION, FL	---	180 *
GEORGIA		
ALLATOONA LAKE, GA	9,257	9,257
APALACHICOLA, CHATTAHOOCHEE AND FLINT RIVERS, GA, AL & FL	1,332	1,332
ATLANTIC INTRACOASTAL WATERWAY, GA	3,000	3,000
BRUNSWICK HARBOR, GA	---	5,258 *
BUFORD DAM AND LAKE SIDNEY LANIER, GA	11,395	11,395
CARTERS DAM AND LAKE, GA	7,591	7,591
HARTWELL LAKE, GA & SC	11,119	11,160 *
INSPECTION OF COMPLETED WORKS, GA	196	196
J STROM THURMOND LAKE, GA & SC	11,069	11,129 *
PROJECT CONDITION SURVEYS, GA	---	100 *
RICHARD B RUSSELL DAM AND LAKE, GA & SC	9,681	9,681
SAVANNAH HARBOR, GA	---	34,312 *
SAVANNAH RIVER BELOW AUGUSTA, GA	---	201 *
WEST POINT DAM AND LAKE, GA & AL	7,828	7,828
HAWAII		
BARBERS POINT HARBOR, HI	295	295
HONOLULU HARBOR, HI	---	7,300 *
INSPECTION OF COMPLETED WORKS, HI	278	278
PROJECT CONDITION SURVEYS, HI	---	663 *

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
IDAHO		
ALBENI FALLS DAM, ID	1,182	1,182
DWORSHAK DAM AND RESERVOIR, ID	4,902	4,902
INSPECTION OF COMPLETED WORKS, ID	377	377
LUCKY PEAK LAKE, ID	10,292	10,292
SCHEDULING RESERVOIR OPERATIONS, ID	716	716
ILLINOIS		
CALUMET HARBOR AND RIVER, IL & IN	---	4,616 *
CARLYLE LAKE, IL	5,719	5,719
CHICAGO HARBOR, IL	---	3,583 *
CHICAGO RIVER, IL	286	286
CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIER, IL	18,920	18,920
FARM CREEK RESERVOIRS, IL	413	413
ILLINOIS WATERWAY (MVR PORTION), IL & IN	43,727	43,727
ILLINOIS WATERWAY (MVS PORTION), IL & IN	2,060	2,060
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, IL	50	50
INSPECTION OF COMPLETED WORKS, IL	1,973	1,973
KASKASKIA RIVER NAVIGATION, IL	2,222	2,222
LAKE MICHIGAN DIVERSION, IL	---	851 *
LAKE SHELBYVILLE, IL	6,272	6,272
MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL	70,824	70,824
MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVS PORTION), IL	39,140	39,140
PROJECT CONDITION SURVEYS, IL	---	106 *
REND LAKE, IL	5,542	5,542
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IL	---	680 *
WAUKEGAN HARBOR, IL	---	1,526 *
INDIANA		
BROOKVILLE LAKE, IN	1,813	1,813
BURNS WATERWAY HARBOR, IN	---	4,619 *
CAGLES MILL LAKE, IN	1,195	1,195
CECIL M HARDEN LAKE, IN	1,243	1,243
INDIANA HARBOR, IN	---	10,998 *
INSPECTION OF COMPLETED WORKS, IN	1,051	1,051
J EDWARD ROUSH LAKE, IN	1,375	1,375
MISSISSINEWA LAKE, IN	1,274	1,274
MONROE LAKE, IN	1,374	1,374
PATOKA LAKE, IN	1,498	1,498
PROJECT CONDITION SURVEYS, IN	---	190 *
SALAMONIE LAKE, IN	1,313	1,313
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IN	---	55 *

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
IOWA		
CORALVILLE LAKE, IA	5,599	5,599
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, IA	6	6
INSPECTION OF COMPLETED WORKS, IA	1,282	1,282
MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & SD	4,829	4,829
MISSOURI RIVER - SIOUX CITY TO THE MOUTH, IA, KS, MO & NE	13,200	13,200
RATHBUN LAKE, IA	2,974	2,974
RED ROCK DAM AND LAKE RED ROCK, IA	5,954	5,954
SAYLORVILLE LAKE, IA	7,934	7,934
KANSAS		
CLINTON LAKE, KS	2,354	2,354
COUNCIL GROVE LAKE, KS	1,378	1,378
EL DORADO LAKE, KS	738	738
ELK CITY LAKE, KS	1,031	1,031
FALL RIVER LAKE, KS	1,145	1,145
HILLSDALE LAKE, KS	967	967
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, KS	4	4
INSPECTION OF COMPLETED WORKS, KS	1,250	1,250
JOHN REDMOND DAM AND RESERVOIR, KS	1,727	1,727
KANOPOLIS LAKE, KS	4,134	4,134
MARION LAKE, KS	1,833	1,833
MELVERN LAKE, KS	3,146	3,146
MILFORD LAKE, KS	2,153	2,153
PEARSON - SKUBITZ BIG HILL LAKE, KS	1,397	1,397
PERRY LAKE, KS	2,495	2,495
POMONA LAKE, KS	2,063	2,063
SCHEDULING RESERVOIR OPERATIONS, KS	472	472
TORONTO LAKE, KS	733	733
TUTTLE CREEK LAKE, KS	2,399	2,399
WILSON LAKE, KS	1,844	1,844
KENTUCKY		
BARKLEY DAM AND LAKE BARKLEY, KY & TN	17,631	17,631
BARREN RIVER LAKE, KY	3,622	3,622
BIG SANDY HARBOR, KY	---	1,960 *
BUCKHORN LAKE, KY	2,079	2,079
CARR CREEK LAKE, KY	1,869	1,869
CAVE RUN LAKE, KY	1,155	1,155
DEWEY LAKE, KY	3,780	3,780
ELVIS STAHR (HICKMAN) HARBOR, KY	---	915 *
FALLS OF THE OHIO NATIONAL WILDLIFE, KY & IN	34	34
FISHTRAP LAKE, KY	1,858	1,858

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
GRAYSON LAKE, KY	1,211	1,211
GREEN AND BARREN RIVERS, KY	2,736	2,736
GREEN RIVER LAKE, KY	4,849	4,849
INSPECTION OF COMPLETED WORKS, KY	1,015	1,015
KENTUCKY RIVER, KY	22	22
LAUREL RIVER LAKE, KY	2,343	2,343
MARTINS FORK LAKE, KY	1,697	1,697
MIDDLESBORO CUMBERLAND RIVER BASIN, KY	266	266
NOLIN LAKE, KY	2,853	2,853
OHIO RIVER LOCKS AND DAMS, KY, IL, IN & OH	68,525	68,525
OHIO RIVER OPEN CHANNEL WORK, KY, IL, IN, OH, PA & WV	7,639	7,639
PAINTSVILLE LAKE, KY	1,282	1,282
ROUGH RIVER LAKE, KY	3,461	3,461
TAYLORSVILLE LAKE, KY	1,148	1,148
WOLF CREEK DAM, LAKE CUMBERLAND, KY	10,313	10,313
YATESVILLE LAKE, KY	1,889	1,889
LOUISIANA		
ATCHAFALAYA RIVER AND BAYOUS CHENE, BOEUF & BLACK, LA	---	12,675 *
BARATARIA BAY WATERWAY, LA	---	100 *
BAYOU BODCAU RESERVOIR, LA	1,289	1,289
BAYOU LAFOURCHE AND LAFOURCHE JUMP WATERWAY, LA	---	100 *
BAYOU PIERRE, LA	33	33
BAYOU SEGNETTE WATERWAY, LA	---	10 *
BAYOU TECHE, LA	---	50 *
CADDO LAKE, LA	208	208
CALCASIEU RIVER AND PASS, LA	---	18,639 *
FRESHWATER BAYOU, LA	---	759 *
GULF INTRACOASTAL WATERWAY, LA	30,185	30,185
HOUMA NAVIGATION CANAL, LA	---	100 *
INSPECTION OF COMPLETED WORKS, LA	1,069	1,069
J BENNETT JOHNSTON WATERWAY, LA	11,881	11,881
LAKE PROVIDENCE HARBOR, LA	---	1,315 *
MERMENTAU RIVER, LA	---	1,540 *
MISSISSIPPI RIVER OUTLETS AT VENICE, LA	---	200 *
MISSISSIPPI RIVER, BATON ROUGE TO THE GULF OF MEXICO, LA	---	89,169 *
PROJECT CONDITION SURVEYS, LA	---	11 *
REMOVAL OF AQUATIC GROWTH, LA	---	250 *
WALLACE LAKE, LA	245	245
WATERWAY FROM EMPIRE TO THE GULF, LA	---	14 *
MAINE		
DISPOSAL AREA MONITORING, ME	---	1,050 *
INSPECTION OF COMPLETED WORKS, ME	100	100

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
PROJECT CONDITION SURVEYS, ME	---	1,000	*
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ME	---	30	*
MARYLAND			
BACK CREEK, MD	---	13	*
BALTIMORE HARBOR AND CHANNELS (50 FOOT), MD	---	23,645	*
BALTIMORE HARBOR, MD (DRIFT REMOVAL)	---	415	*
CLAIBORNE HARBOR, MD	---	5	*
CUMBERLAND, MD AND RIDGELEY, WV	201	201	
FISHING CREEK, MD	---	10	*
HERRING CREEK, TALL TIMBERS, MD	---	10	*
INSPECTION OF COMPLETED WORKS, MD	126	126	
JENNINGS RANDOLPH LAKE, MD & WV	6,285	6,285	
KNAPPS NARROWS, MD	---	5	*
LOWER THOROFARE, DEAL ISLAND, MD	---	5	*
MIDDLE RIVER & DARK HEAD CREEK, MD	---	3	*
NEAVITT HARBOR, MD	---	3	*
OCEAN CITY HARBOR AND INLET AND SINEPUXENT BAY, MD	---	5	*
PROJECT CONDITION SURVEYS, MD	---	485	*
ROCK HALL HARBOR, MD	---	5	*
SCHEDULING RESERVOIR OPERATIONS, MD	173	173	
WICOMICO RIVER, MD	---	4,000	*
MASSACHUSETTS			
BARRE FALLS DAM, MA	888	888	
BIRCH HILL DAM, MA	886	886	
BOSTON HARBOR, MA	---	7,150	*
BUFFUMVILLE LAKE, MA	731	731	
CAPE COD CANAL, MA	2,535	7,742	*
CHARLES RIVER NATURAL VALLEY STORAGE AREA, MA	391	391	
CONANT BROOK LAKE, MA	334	334	
EAST BRIMFIELD LAKE, MA	684	684	
HODGES VILLAGE DAM, MA	725	725	
INSPECTION OF COMPLETED WORKS, MA	348	348	
KNIGHTVILLE DAM, MA	1,252	1,252	
LITTLEVILLE LAKE, MA	721	721	
NEW BEDFORD FAIRHAVEN AND ACUSHNET HURRICANE BARRIER, MA	505	505	
PROJECT CONDITION SURVEYS, MA	---	950	*
TULLY LAKE, MA	914	914	
WEST HILL DAM, MA	1,034	1,034	
WESTVILLE LAKE, MA	1,050	1,050	

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
MICHIGAN		
CHANNELS IN LAKE ST CLAIR, MI	---	190 *
DETROIT RIVER, MI	72	6,882 *
GRAND HAVEN HARBOR, MI	18	1,768 *
HOLLAND HARBOR, MI	---	600 *
INSPECTION OF COMPLETED WORKS, MI	260	260
KEWEENAW WATERWAY, MI	27	27
LUDINGTON HARBOR, MI	---	500 *
PROJECT CONDITION SURVEYS, MI	---	833 *
ROUGE RIVER, MI	---	1,200 *
SAGINAW RIVER, MI	---	2,425 *
SEBEWAING RIVER, MI	531	531
ST CLAIR RIVER, MI	---	1,510 *
ST JOSEPH HARBOR, MI	---	1,500 *
ST MARYS RIVER, MI	3,153	28,333 *
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MI	---	3,138 *
MINNESOTA		
BIGSTONE LAKE - WHETSTONE RIVER, MN & SD	462	462
DULUTH - SUPERIOR HARBOR, MN & WI	750	7,540 *
INSPECTION OF COMPLETED WORKS, MN	240	240
LAC QUI PARLE LAKES, MINNESOTA RIVER, MN	1,349	1,349
MINNESOTA RIVER, MN	---	260 *
MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVP PORTION), MN	71,737	71,737
ORWELL LAKE, MN	508	508
PROJECT CONDITION SURVEYS, MN	---	103 *
RED LAKE RESERVOIR, MN	143	143
RESERVOIRS AT HEADWATERS OF MISSISSIPPI RIVER, MN	5,244	5,244
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MN	---	246 *
MISSISSIPPI		
BILOXI HARBOR, MS	---	1,748 *
EAST FORK, TOMBIGBEE RIVER, MS	290	290
GULFPORT HARBOR, MS	---	3,215 *
INSPECTION OF COMPLETED WORKS, MS	116	116
MOUTH OF YAZOO RIVER, MS	---	30 *
OKATIBBEE LAKE, MS	1,740	1,740
PASCAGOULA HARBOR, MS	---	6,151 *
PEARL RIVER, MS & LA	89	89
PROJECT CONDITION SURVEYS, MS	---	131 *
ROSEDALE HARBOR, MS	---	935 *
WATER/ENVIRONMENTAL CERTIFICATION, MS	---	40 *
YAZOO RIVER, MS	---	30 *

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
MISSOURI		
CARUTHERSVILLE HARBOR, MO	---	615 *
CLARENCE CANNON DAM AND MARK TWAIN LAKE, MO	6,955	6,955
CLEARWATER LAKE, MO	3,740	3,740
HARRY S TRUMAN DAM AND RESERVOIR, MO	11,638	11,638
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, MO	2	2
INSPECTION OF COMPLETED WORKS, MO	1,512	1,512
LITTLE BLUE RIVER LAKES, MO	1,347	1,347
LONG BRANCH LAKE, MO	3,282	3,282
MISSISSIPPI RIVER BETWEEN THE OHIO AND MISSOURI RIVERS (REG WORKS), MO & IL	30,821	30,821
POMME DE TERRE LAKE, MO	2,767	2,767
SCHEDULING RESERVOIR OPERATIONS, MO	172	172
SMITHVILLE LAKE, MO	1,606	1,606
SOUTHEAST MISSOURI PORT, MISSISSIPPI RIVER, MO	---	409 *
STOCKTON LAKE, MO	5,691	5,691
TABLE ROCK LAKE, MO & AR	10,331	10,331
MONTANA		
FT PECK DAM AND LAKE, MT	5,534	5,534
INSPECTION OF COMPLETED WORKS, MT	154	154
LIBBY DAM, MT	2,636	2,636
SCHEDULING RESERVOIR OPERATIONS, MT	125	125
NEBRASKA		
GAVINS POINT DAM, LEWIS AND CLARK LAKE, NE & SD	10,087	10,087
HARLAN COUNTY LAKE, NE	2,337	2,337
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NE	3	3
INSPECTION OF COMPLETED WORKS, NE	466	466
MISSOURI RIVER - KENSLERS BEND, NE TO SIOUX CITY, IA	46	46
PAPILLION CREEK, NE	858	858
SALT CREEKS AND TRIBUTARIES, NE	3,347	3,347
NEVADA		
INSPECTION OF COMPLETED WORKS, NV	77	77
MARTIS CREEK LAKE, NV & CA	1,278	1,278
PINE AND MATHEWS CANYONS LAKES, NV	816	816
NEW HAMPSHIRE		
BLACKWATER DAM, NH	823	823
EDWARD MACDOWELL LAKE, NH	732	732

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
FRANKLIN FALLS DAM, NH	1,017	1,017
HOPKINTON - EVERETT LAKES, NH	1,857	1,857
INSPECTION OF COMPLETED WORKS, NH	90	90
OTTER BROOK LAKE, NH	1,395	1,395
PROJECT CONDITION SURVEYS, NH	---	300 *
SURRY MOUNTAIN LAKE, NH	801	801
NEW JERSEY		
BARNEGAT INLET, NJ	---	9 *
CHEESEQUAKE CREEK, NJ	---	50 *
COLD SPRING INLET, NJ	---	3 *
DELAWARE RIVER AT CAMDEN, NJ	---	15 *
DELAWARE RIVER, PHILADELPHIA TO THE SEA, NJ, PA & DE	---	27,785 *
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NJ	45	45
INSPECTION OF COMPLETED WORKS, NJ	487	487
MANASQUAN RIVER, NJ	---	2 *
NEW JERSEY INTRACOASTAL WATERWAY, NJ	---	50 *
NEWARK BAY, HACKENSACK AND PASSAIC RIVERS, NJ	---	8,000 *
PASSAIC RIVER FLOOD WARNING SYSTEMS, NJ	668	668
PROJECT CONDITION SURVEYS, NJ	---	2,224 *
RARITAN RIVER TO ARTHUR KILL CUT-OFF, NJ	---	20 *
RARITAN RIVER, NJ	---	50 *
SANDY HOOK BAY AT LEONARD, NJ	---	10 *
SHOAL HARBOR AND COMPTON CREEK, NJ	---	10 *
SHREWSBURY RIVER, MAIN CHANNEL, NJ	---	25 *
NEW MEXICO		
ABIQUIU DAM, NM	3,715	3,715
COCHITI LAKE, NM	3,585	3,585
CONCHAS LAKE, NM	2,726	2,726
GALISTEO DAM, NM	935	935
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NM	27	27
INSPECTION OF COMPLETED WORKS, NM	561	561
JEMEZ CANYON DAM, NM	849	849
MIDDLE RIO GRANDE ENDANGERED SPECIES COLLABORATIVE PROGRAM, NM	2,117	2,117
SANTA ROSA DAM AND LAKE, NM	1,385	1,385
SCHEDULING RESERVOIR OPERATIONS, NM	199	199
TWO RIVERS DAM, NM	1,056	1,056
UPPER RIO GRANDE WATER OPERATIONS MODEL, NM	746	746
NEW YORK		
ALMOND LAKE, NY	741	741
ARKPORT DAM, NY	330	330
BAY RIDGE AND RED HOOK CHANNELS, NY	---	25 *

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
BLACK ROCK CHANNEL AND TONAWANDA HARBOR, NY	5	6,235	*
BRONX RIVER, NY	---	30	*
BROWNS CREEK, NY	---	30	*
BUFFALO HARBOR, NY	---	3,055	*
BUTTERMILK CHANNEL, NY	---	400	*
EAST RIVER, NY	---	10	*
EAST SIDNEY LAKE, NY	766	766	
EASTCHESTER CREEK, NY	---	5	*
FIRE ISLAND INLET TO JONES INLET, NY	---	50	*
FLUSHING BAY AND CREEK, NY	---	30	*
GLEN COVE CREEK, NY	---	15	*
GREAT KILLS HARBOR, NY	---	20	*
GREAT SOUTH BAY, NY	---	25	*
HUDSON RIVER CHANNEL, NY	---	100	*
HUDSON RIVER, NY (MAINT)	---	9,650	*
HUDSON RIVER, NY (O & C)	---	2,705	*
INSPECTION OF COMPLETED WORKS, NY	1,391	1,391	
JONES INLET, NY	---	50	*
LONG ISLAND INTRACOASTAL WATERWAY, NY	---	50	*
MATTITUCK HARBOR, NY	---	15	*
MORICHES INLET, NY	---	50	*
MOUNT MORRIS DAM, NY	3,785	3,785	
NEW YORK AND NEW JERSEY CHANNELS, NY	---	9,000	*
NEW YORK AND NEW JERSEY HARBOR, NY & NJ	---	16,000	*
NEW YORK HARBOR, NY	---	8,548	*
NEW YORK HARBOR, NY & NJ (DRIFT REMOVAL)	---	10,374	*
NEW YORK HARBOR, NY (PREVENTION OF OBSTRUCTIVE DEPOSITS)	---	1,417	*
PORTCHESTER HARBOR, NY	---	50	*
PROJECT CONDITION SURVEYS, NY	---	2,522	*
ROCHESTER HARBOR, NY	---	1,200	*
SHINNECOCK INLET, NY	---	50	*
SOUTHERN NEW YORK FLOOD CONTROL PROJECTS, NY	854	854	
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, NY	---	610	*
WESTCHESTER CREEK, NY	---	5	*
WHITNEY POINT LAKE, NY	1,386	1,386	
NORTH CAROLINA			
ATLANTIC INTRACOASTAL WATERWAY, NC	5,590	5,590	
B EVERETT JORDAN DAM AND LAKE, NC	4,781	4,781	
CAPE FEAR RIVER ABOVE WILMINGTON, NC	84	401	*
FALLS LAKE, NC	3,275	3,275	
INSPECTION OF COMPLETED WORKS, NC	190	190	
MANTEO (SHALLOWBAG) BAY, NC	---	1,550	*
MASONBORO INLET AND CONNECTING CHANNELS, NC	50	50	
MOREHEAD CITY HARBOR, NC	---	5,570	*
NEW RIVER INLET, NC	3,555	3,555	

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
PROJECT CONDITION SURVEYS, NC	---	700	*
ROLLINSON CHANNEL, NC	---	790	*
SILVER LAKE HARBOR, NC	---	1,085	*
W KERR SCOTT DAM AND RESERVOIR, NC	3,417	3,417	
WILMINGTON HARBOR, NC	---	14,715	*
NORTH DAKOTA			
BOWMAN HALEY, ND	328	328	
GARRISON DAM, LAKE SAKAKAWEA, ND	15,769	15,769	
HOMME LAKE, ND	337	337	
INSPECTION OF COMPLETED WORKS, ND	530	530	
LAKE ASHTABULA AND BALDHILL DAM, ND	1,999	1,999	
PIPESTEM LAKE, ND	503	503	
SCHEDULING RESERVOIR OPERATIONS, ND	123	123	
SOURIS RIVER, ND	2,029	2,029	
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ND	---	85	*
OHIO			
ALUM CREEK LAKE, OH	2,236	2,236	
ASHTABULA HARBOR, OH	---	2,359	*
BERLIN LAKE, OH	3,099	3,099	
CAESAR CREEK LAKE, OH	2,145	2,145	
CLARENCE J BROWN DAM, OH	1,268	1,268	
CLEVELAND HARBOR, OH	---	7,139	*
CONNEAUT HARBOR, OH	---	1,130	*
DEER CREEK LAKE, OH	1,664	1,664	
DELAWARE LAKE, OH	2,393	2,393	
DILLON LAKE, OH	1,495	1,495	
FAIRPORT HARBOR, OH	---	1,158	*
INSPECTION OF COMPLETED WORKS, OH	737	737	
MASSILLON LOCAL PROTECTION PROJECT, OH	101	101	
MICHAEL J KIRWAN DAM AND RESERVOIR, OH	1,467	1,467	
MOSQUITO CREEK LAKE, OH	1,857	1,857	
MUSKINGUM RIVER LAKES, OH	17,127	17,127	
NORTH BRANCH KOKOSING RIVER LAKE, OH	556	556	
OHIO-MISSISSIPPI FLOOD CONTROL, OH	1,699	1,699	
PAINT CREEK LAKE, OH	1,523	1,523	
PROJECT CONDITION SURVEYS, OH	---	306	*
ROSEVILLE LOCAL PROTECTION PROJECT, OH	37	37	
SANDUSKY HARBOR, OH	---	1,313	*
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OH	---	255	*
TOLEDO HARBOR, OH	---	4,427	*
TOM JENKINS DAM, OH	825	825	
WEST FORK OF MILL CREEK LAKE, OH	2,412	2,412	
WILLIAM H HARSHA LAKE, OH	2,665	2,665	

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
OKLAHOMA		
ARCADIA LAKE, OK	615	615
BIRCH LAKE, OK	778	778
BROKEN BOW LAKE, OK	2,074	2,074
CANTON LAKE, OK	2,119	2,119
COPAN LAKE, OK	1,171	1,171
EUFAULA LAKE, OK	6,828	6,828
FORT GIBSON LAKE, OK	4,998	4,998
FORT SUPPLY LAKE, OK	917	917
GREAT SALT PLAINS LAKE, OK	298	298
HEYBURN LAKE, OK	861	861
HUGO LAKE, OK	2,524	2,524
HULAH LAKE, OK	735	735
INSPECTION OF COMPLETED WORKS, OK	650	650
KAW LAKE, OK	2,215	2,215
KEYSTONE LAKE, OK	4,539	4,539
MCCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK	20,810	20,810
OOLOGAH LAKE, OK	2,320	2,320
OPTIMA LAKE, OK	63	63
PENSACOLA RESERVOIR, LAKE OF THE CHEROKEES, OK	164	164
PINE CREEK LAKE, OK	1,671	1,671
SARDIS LAKE, OK	1,285	1,285
SCHEDULING RESERVOIR OPERATIONS, OK	1,360	1,360
SKIATOOK LAKE, OK	1,697	1,697
TENKILLER FERRY LAKE, OK	4,318	4,318
WAURIKA LAKE, OK	1,859	1,859
WISTER LAKE, OK	758	758
OREGON		
APPLEGATE LAKE, OR	1,042	1,042
BLUE RIVER LAKE, OR	1,014	1,014
BONNEVILLE LOCK AND DAM, OR & WA	2,085	8,000 *
CHETCO RIVER, OR	---	785 *
COLUMBIA RIVER AT THE MOUTH, OR & WA	---	23,535 *
COOS BAY, OR	---	6,958 *
COQUILLE RIVER, OR	---	26 *
COTTAGE GROVE LAKE, OR	1,261	1,261
COUGAR LAKE, OR	2,360	2,360
DEPOE BAY, OR	---	10 *
DETROIT LAKE, OR	5,894	5,894
DORENA LAKE, OR	1,281	1,281
ELK CREEK LAKE, OR	174	174
FALL CREEK LAKE, OR	1,475	1,475
FERN RIDGE LAKE, OR	2,013	2,013

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
GREEN PETER - FOSTER LAKES, OR	2,147	2,147
HILLS CREEK LAKE, OR	1,483	1,483
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, OR	60	60
INSPECTION OF COMPLETED WORKS, OR	628	628
JOHN DAY LOCK AND DAM, OR & WA	5,688	5,688
LOOKOUT POINT LAKE, OR	2,052	2,052
LOST CREEK LAKE, OR	3,621	3,621
MCNARY LOCK AND DAM, OR & WA	9,623	9,623
NEHALEM BAY, OR	---	5 *
PORT ORFORD, OR	---	5 *
PROJECT CONDITION SURVEYS, OR	---	400 *
ROGUE RIVER AT GOLD BEACH, OR	---	5 *
SCHEDULING RESERVOIR OPERATIONS, OR	99	99
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OR	---	10,265 *
SIUSLAW RIVER, OR	---	10 *
SKIPANON CHANNEL, OR	---	5 *
TILLAMOOK BAY & BAR, OR	---	5 *
UMPQUA RIVER, OR	---	939 *
WILLAMETTE RIVER AT WILLAMETTE FALLS, OR	161	161
WILLAMETTE RIVER BANK PROTECTION, OR	170	170
WILLOW CREEK LAKE, OR	748	748
YAQUINA BAY AND HARBOR, OR	---	3,080 *
PENNSYLVANIA		
ALLEGHENY RIVER, PA	7,863	7,863
ALVIN R BUSH DAM, PA	874	874
AYLESWORTH CREEK LAKE, PA	416	416
BELTZVILLE LAKE, PA	1,641	1,641
BLUE MARSH LAKE, PA	3,683	3,683
CONEMAUGH RIVER LAKE, PA	1,704	1,704
COWANESQUE LAKE, PA	2,664	2,664
CROOKED CREEK LAKE, PA	2,955	2,955
CURWENSVILLE LAKE, PA	1,060	1,060
DELAWARE RIVER, PHILADELPHIA, PA TO TRENTON, NJ	---	3,850 *
EAST BRANCH CLARION RIVER LAKE, PA	5,892	5,892
FOSTER JOSEPH SAYERS DAM, PA	2,165	2,165
FRANCIS E WALTER DAM, PA	2,720	2,720
GENERAL EDGAR JADWIN DAM AND RESERVOIR, PA	338	338
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, PA	60	60
INSPECTION OF COMPLETED WORKS, PA	1,110	1,110
JOHNSTOWN, PA	1,581	1,581
KINZUA DAM AND ALLEGHENY RESERVOIR, PA	1,551	1,551
LOYALHANNA LAKE, PA	1,530	1,530
MAHONING CREEK LAKE, PA	1,457	1,457
MONONGAHELA RIVER, PA	15,183	15,183
OHIO RIVER LOCKS AND DAMS, PA, OH & WV	45,472	45,472

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
OHIO RIVER OPEN CHANNEL WORK, PA, OH & WV	1,765	1,765	
PROJECT CONDITION SURVEYS, PA	---	170	*
PROMPTON LAKE, PA	851	851	
PUNXSUTAWNEY, PA	719	719	
RAYSTOWN LAKE, PA	5,281	5,281	
SCHEDULING RESERVOIR OPERATIONS, PA	76	76	
SCHUYLKILL RIVER, PA	---	100	*
SHENANGO RIVER LAKE, PA	3,081	3,081	
STILLWATER LAKE, PA	872	872	
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, PA	---	105	*
TIOGA - HAMMOND LAKES, PA	3,480	3,480	
TIONESTA LAKE, PA	2,699	2,699	
UNION CITY LAKE, PA	612	612	
WOODCOCK CREEK LAKE, PA	1,157	1,157	
YORK INDIAN ROCK DAM, PA	1,396	1,396	
YOUGHIOGHENY RIVER LAKE, PA & MD	2,828	2,828	
PUERTO RICO			
INSPECTION OF COMPLETED WORKS, PR	134	134	
PROJECT CONDITION SURVEYS, PR	---	100	*
SAN JUAN HARBOR, PR	---	630	*
RHODE ISLAND			
BLOCK ISLAND HARBOR OF REFUGE, RI	---	2,550	*
FOX POINT BARRIER, NARRANGANSETT BAY, RI	2,335	2,335	
GREAT SALT POND, BLOCK ISLAND, RI	---	350	*
INSPECTION OF COMPLETED WORKS, RI	134	134	
PROJECT CONDITION SURVEYS, RI	---	300	*
WOONSOCKET, RI	1,424	1,424	
SOUTH CAROLINA			
ATLANTIC INTRACOASTAL WATERWAY, SC	3,487	3,487	
CHARLESTON HARBOR, SC	---	20,564	*
COOPER RIVER, CHARLESTON HARBOR, SC	---	3,867	*
INSPECTION OF COMPLETED WORKS, SC	75	75	
PROJECT CONDITION SURVEYS, SC	---	875	*
SOUTH DAKOTA			
BIG BEND DAM, LAKE SHARPE, SD	9,900	9,900	
COLD BROOK LAKE, SD	345	345	
COTTONWOOD SPRINGS LAKE, SD	260	260	
FORT RANDALL DAM, LAKE FRANCIS CASE, SD	12,178	12,178	
INSPECTION OF COMPLETED WORKS, SD	356	356	

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
LAKE TRAVERSE, SD & MN	827	827
OAHE DAM, LAKE OAHE, SD & ND	12,865	12,865
SCHEDULING RESERVOIR OPERATIONS, SD	144	144
TENNESSEE		
CENTER HILL LAKE, TN	7,719	7,719
CHEATHAM LOCK AND DAM, TN	8,384	8,384
CHICKAMAUGA LOCK, TENNESSEE RIVER, TN	3,253	3,253
CORDELL HULL DAM AND RESERVOIR, TN	8,571	8,571
DALE HOLLOW LAKE, TN	7,828	7,828
INSPECTION OF COMPLETED WORKS, TN	328	328
J PERCY PRIEST DAM AND RESERVOIR, TN	5,623	5,623
OLD HICKORY LOCK AND DAM, TN	11,491	11,491
TENNESSEE RIVER, TN	25,952	25,952
WOLF RIVER HARBOR, TN	---	920 *
TEXAS		
AQUILLA LAKE, TX	1,140	1,140
ARKANSAS - RED RIVER BASINS CHLORIDE CONTROL - AREA VIII, TX	1,799	1,799
BARDWELL LAKE, TX	2,045	2,045
BELTON LAKE, TX	4,752	4,752
BENBROOK LAKE, TX	4,159	4,159
BRAZOS ISLAND HARBOR, TX	---	85 *
BUFFALO BAYOU AND TRIBUTARIES, TX	3,343	3,343
CANYON LAKE, TX	5,070	5,070
CHANNEL TO HARLINGEN, TX	---	650 *
CHANNEL TO PORT BOLIVAR, TX	---	100 *
CORPUS CHRISTI SHIP CHANNEL, TX	---	5,300 *
DENISON DAM, LAKE TEXOMA, TX	7,980	7,980
ESTELLINE SPRINGS EXPERIMENTAL PROJECT, TX	39	39
FERRELLS BRIDGE DAM, LAKE O' THE PINES, TX	4,159	4,159
FREEPORT HARBOR, TX	---	4,700 *
GALVESTON HARBOR AND CHANNEL, TX	---	6,630 *
GIWW, CHANNEL TO VICTORIA, TX	---	30 *
GIWW, CHOCOLATE BAYOU, TX	---	30 *
GRANGER DAM AND LAKE, TX	6,772	6,772
GRAPEVINE LAKE, TX	5,185	5,185
GULF INTRACOASTAL WATERWAY, TX	25,500	25,500
HORDS CREEK LAKE, TX	1,619	1,619
HOUSTON SHIP CHANNEL, TX	---	23,300 *
INSPECTION OF COMPLETED WORKS, TX	1,657	1,657
JIM CHAPMAN LAKE, TX	1,895	1,895
JOE POOL LAKE, TX	2,645	2,645
LAKE KEMP, TX	280	280
LAVON LAKE, TX	3,932	3,932

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
LEWISVILLE DAM, TX	7,557	7,557	
MATAGORDA SHIP CHANNEL, TX	---	6,450	*
NAVARRO MILLS LAKE, TX	2,042	2,042	
NORTH SAN GABRIEL DAM AND LAKE GEORGETOWN, TX	4,231	4,231	
O C FISHER DAM AND LAKE, TX	2,851	2,851	
PAT MAYSE LAKE, TX	1,397	1,397	
PROCTOR LAKE, TX	2,666	2,666	
PROJECT CONDITION SURVEYS, TX	---	325	*
RAY ROBERTS LAKE, TX	2,172	2,172	
SABINE - NECHES WATERWAY, TX	---	11,250	*
SAM RAYBURN DAM AND RESERVOIR, TX	8,963	8,963	
SCHEDULING RESERVOIR OPERATIONS, TX	295	295	
SOMERVILLE LAKE, TX	4,904	4,904	
STILLHOUSE HOLLOW DAM, TX	6,621	6,621	
TEXAS CITY SHIP CHANNEL, TX	---	50	*
TOWN BLUFF DAM, B A STEINHAGEN LAKE, TX	7,582	7,582	
WACO LAKE, TX	5,669	5,669	
WALLISVILLE LAKE, TX	2,232	2,232	
WHITNEY LAKE, TX	10,253	10,253	
WRIGHT PATMAN DAM AND LAKE, TX	5,418	5,418	
UTAH			
INSPECTION OF COMPLETED WORKS, UT	24	24	
SCHEDULING RESERVOIR OPERATIONS, UT	477	477	
VERMONT			
BALL MOUNTAIN, VT	1,434	1,434	
INSPECTION OF COMPLETED WORKS, VT	174	174	
NORTH HARTLAND LAKE, VT	1,171	1,171	
NORTH SPRINGFIELD LAKE, VT	739	739	
TOWNSHEND LAKE, VT	1,577	1,577	
UNION VILLAGE DAM, VT	860	860	
VIRGIN ISLANDS			
INSPECTION OF COMPLETED WORKS, VI	49	49	
PROJECT CONDITION SURVEYS, VI	---	50	*
VIRGINIA			
ATLANTIC INTRACOASTAL WATERWAY - ACC, VA	2,644	2,644	
ATLANTIC INTRACOASTAL WATERWAY - DSC, VA	1,438	1,438	
GATHRIGHT DAM AND LAKE MOOMAW, VA	2,709	2,709	
HAMPTON ROADS, NORFOLK & NEWPORT NEWS HARBOR, VA (DRIFT REMOVAL)	---	1,500	*
HAMPTON ROADS, VA (PREVENTION OF OBSTRUCTIVE DEPOSITS)	---	38	*

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED	
INSPECTION OF COMPLETED WORKS, VA	432	432	
JAMES RIVER CHANNEL, VA	---	350	*
JOHN H KERR LAKE, VA & NC	13,820	13,820	
JOHN W FLANNAGAN DAM AND RESERVOIR, VA	2,888	2,888	
NORFOLK HARBOR, VA	---	21,925	*
NORTH FORK OF POUND RIVER LAKE, VA	848	848	
PHILPOTT LAKE, VA	5,520	5,520	
PROJECT CONDITION SURVEYS, VA	---	1,215	*
WASHINGTON			
BELLINGHAM HARBOR, WA	---	2	*
CHIEF JOSEPH DAM, WA	600	600	
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA & PORTLAND, OR	---	47,220	*
COLUMBIA RIVER AT BAKER BAY, WA & OR	---	5	*
COLUMBIA RIVER BETWEEN CHINOOK AND SAND ISLAND, WA	---	1	*
COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR	---	881	*
COLUMBIA RIVER FISH MITIGATION, WA, OR & ID (CRFM)	3,476	3,476	
EVERETT HARBOR AND SNOHOMISH RIVER, WA	---	1,980	*
FRIDAY HARBOR, WA	---	2	*
GRAYS HARBOR, WA	---	11,237	*
HOWARD HANSON DAM, WA	12,680	12,680	
ICE HARBOR LOCK AND DAM, WA	5,075	5,075	
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, WA	70	70	
INSPECTION OF COMPLETED WORKS, WA	922	922	
LAKE CROCKETT (KEYSTONE HARBOR), WA	---	16	*
LAKE WASHINGTON SHIP CANAL, WA	1,079	8,066	*
LITTLE GOOSE LOCK AND DAM, WA	3,506	3,506	
LOWER GRANITE LOCK AND DAM, WA	4,347	4,347	
LOWER MONUMENTAL LOCK AND DAM, WA	3,430	3,430	
MILL CREEK LAKE, WA	5,486	5,486	
MOUNT SAINT HELENS SEDIMENT CONTROL, WA	135	135	
MUD MOUNTAIN DAM, WA	6,174	6,174	
NEAH BAY, WA	---	17	*
OLYMPIA HARBOR, WA	---	2	*
PORT TOWNSEND, WA	---	14	*
PROJECT CONDITION SURVEYS, WA	---	1,046	*
PUGET SOUND AND TRIBUTARY WATERS, WA	---	1,485	*
QUILLAYUTE RIVER, WA	---	1,673	*
SCHEDULING RESERVOIR OPERATIONS, WA	463	463	
SEATTLE HARBOR, WA	---	1,816	*
STILLAGUAMISH RIVER, WA	2,917	2,917	
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WA	---	80	*
SWINOMISH CHANNEL, WA	---	2	*
TACOMA HARBOR, WA	---	15	*
TACOMA, PUYALLUP RIVER, WA	178	178	

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
THE DALLES LOCK AND DAM, WA & OR	3,274	3,274
WILLAPA RIVER AND HARBOR, WA	---	44 *
WEST VIRGINIA		
BEECH FORK LAKE, WV	1,842	1,842
BLUESTONE LAKE, WV	4,863	4,863
BURNSVILLE LAKE, WV	3,240	3,240
EAST LYNN LAKE, WV	2,183	2,183
ELKINS, WV	118	118
INSPECTION OF COMPLETED WORKS, WV	474	474
KANAWHA RIVER LOCKS AND DAMS, WV	9,979	9,979
OHIO RIVER LOCKS AND DAMS, WV, KY & OH	29,834	29,834
OHIO RIVER OPEN CHANNEL WORK, WV, KY & OH	2,684	2,684
R D BAILEY LAKE, WV	1,811	1,811
STONEWALL JACKSON LAKE, WV	1,505	1,505
SUMMERSVILLE LAKE, WV	2,579	2,579
SUTTON LAKE, WV	2,522	2,522
TYGART LAKE, WV	1,693	1,693
WISCONSIN		
EAU GALLE RIVER LAKE, WI	829	829
FOX RIVER, WI	4,267	4,267
GREEN BAY HARBOR, WI	---	3,920 *
INSPECTION OF COMPLETED WORKS, WI	41	41
KEWAUNEE HARBOR, WI	18	18
MILWAUKEE HARBOR, WI	---	2,570 *
PROJECT CONDITION SURVEYS, WI	---	325 *
STURGEON BAY HARBOR AND LAKE MICHIGAN SHIP CANAL, WI	6	6
SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WI	---	200 *
WYOMING		
INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, WY	15	15
INSPECTION OF COMPLETED WORKS, WY	123	123
JACKSON HOLE LEVEES, WY	588	588
SCHEDULING RESERVOIR OPERATIONS, WY	107	107
SUBTOTAL, PROJECTS LISTED UNDER STATES	1,943,381	2,847,631
REMAINING ITEMS		
ADDITIONAL FUNDING FOR ONGOING WORK		
NAVIGATION MAINTENANCE	---	32,902
DEEP-DRAFT HARBOR AND CHANNEL	---	520,000
DONOR AND ENERGY TRANSFER PORTS	---	50,000

CORPS OF ENGINEERS - OPERATION AND MAINTENANCE
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST	HOUSE RECOMMENDED
INLAND WATERWAYS	---	50,000
SMALL, REMOTE, OR SUBSISTENCE NAVIGATION	---	60,000
OTHER AUTHORIZED PROJECT PURPOSES	---	75,000
AQUATIC NUISANCE CONTROL RESEARCH	675	3,000
ASSET MANAGEMENT/FACILITIES AND EQUIP MAINTENANCE (FEM)	3,650	3,650
CIVIL WORKS WATER MANAGEMENT SYSTEM (CWWMS)	10,000	10,000
COASTAL INLET RESEARCH PROGRAM	2,700	2,700
COASTAL OCEAN DATA SYSTEM (CODS)	2,500	6,500
CULTURAL RESOURCES	1,000	1,000
CYBERSECURITY	4,000	4,000
DREDGE MCFARLAND READY RESERVE	---	11,690 *
DREDGE WHEELER READY RESERVE	---	15,000 *
DREDGING DATA AND LOCK PERFORMANCE MONITORING SYSTEM	1,120	1,120
DREDGING OPERATIONS AND ENVIRONMENTAL RESEARCH (DOER)	6,450	6,450
DREDGING OPERATIONS TECHNICAL SUPPORT PROGRAM (DOTS)	2,820	2,820
EARTHQUAKE HAZARDS REDUCTION PROGRAM	300	300
FACILITY PROTECTION	4,500	4,500
FISH & WILDLIFE OPERATING FISH HATCHERY REIMBURSEMENT	5,400	5,400
HARBOR MAINTENANCE FEE DATA COLLECTION	---	795 *
INLAND WATERWAY NAVIGATION CHARTS	4,500	4,500
INSPECTION OF COMPLETED FEDERAL FLOOD CONTROL PROJECTS	20,000	20,000
MONITORING OF COMPLETED NAVIGATION PROJECTS	3,900	10,000
NATIONAL COASTAL MAPPING PROGRAM	6,300	10,000
NATIONAL DAM SAFETY PROGRAM (PORTFOLIO RISK ASSESSMENT)	10,000	10,000
NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP)	5,500	5,500
NATIONAL (LEVEE) FLOOD INVENTORY	5,000	5,000
NATIONAL (MULTIPLE PROJECT) NATURAL RESOURCES MANAGEMENT ACTIVITIES	3,700	3,700
NATIONAL PORTFOLIO ASSESSMENT FOR REALLOCATIONS	500	500
OPTIMIZATION TOOLS FOR NAVIGATION	322	322
PERFORMANCE-BASED BUDGETING SUPPORT PROGRAM	2,000	2,000
RECREATION MANAGEMENT SUPPORT PROGRAM	1,550	1,550
REGIONAL SEDIMENT MANAGEMENT PROGRAM	3,500	3,500
REVIEW OF NON-FEDERAL ALTERATIONS OF CIVIL WORKS PROJECTS (SECTION 408)	8,500	8,500
STEWARDSHIP SUPPORT PROGRAM	900	900
SUSTAINABLE RIVERS PROGRAM (SRP)	400	400
VETERAN'S CURATION PROGRAM AND COLLECTIONS MANAGEMENT	6,500	6,500
WATERBORNE COMMERCE STATISTICS	4,670	4,670
WATER OPERATIONS TECHNICAL SUPPORT (WOTS)	500	8,000
SUBTOTAL, REMAINING ITEMS	133,357	972,369
TOTAL, OPERATION AND MAINTENANCE	2,076,738	3,820,000

**Includes funds requested in other accounts.*

Los Angeles County Drainage Area (LACDA), California.—The Corps shall provide to the Committees on Appropriations of both Houses of Congress not later than 120 days after enactment of this Act a report on the outstanding maintenance and repair needs within the Corps-maintained portion of the LACDA system. The report shall identify opportunities for local agency maintenance and collaboration of the Corps-maintained portion of the LACDA system to more effectively utilize budgeted funds in a manner that reduces flood risk, increases stormwater capture, and enables a more sustainable local source of water.

Waco Lake, Texas.—In fiscal year 2018, the Committee encouraged the Corps to work with local officials to determine whether issues at the Corps project are the cause of damages to the public road and what authorities and funding sources may be available to assist the local community in repairing the road. The Corps is directed to provide this information to the Committee not later than 45 days after the enactment of this Act.

Additional Funding for Ongoing Work.—When allocating the additional funding provided in this account, the Corps shall consider giving priority to the following:

- ability to complete ongoing work maintaining authorized depths and widths of harbors and shipping channels, including where contaminated sediments are present;
- ability to address critical maintenance backlog;
- presence of the U.S. Coast Guard;
- extent to which the work will enhance national, regional, or local economic development, including domestic manufacturing capacity;
- extent to which the work will promote job growth or international competitiveness;
- number of jobs created directly by the funded activity;
- ability to obligate the funds allocated within the fiscal year;
- ability to complete the project, separable element, project phase, or useful increment of work within the funds allocated;
- risk of imminent failure or closure of the facility; and
- for harbor maintenance activities,
    - total tonnage handled;
    - total exports;
    - total imports;
    - dollar value of cargo handled;
    - energy infrastructure and national security needs served;
    - designation as strategic seaports;
    - lack of alternative means of freight movement; and
    - savings over alternative means of freight movement.

Additional funding provided for donor and energy transfer ports shall be allocated in accordance with 33 U.S.C. 2238c. The Corps is encouraged to include funding for this program in future budget requests.

Aquatic Nuisance Research Program.—Within available funds, the Corps is encouraged to support research that will identify and develop improved strategies for early detection, prevention, and management techniques and procedures to reduce the occurrence and impacts of harmful algal blooms in our nation's water resources.

Monitoring of Completed Navigation Projects.—The Committee supports Corps efforts to improve aging critical infrastructure projects, including post-tensioned anchorages at its locks and dams. The Committee understands the Corps is exploring non-destructive testing methods of inspection that are safer and less costly, and encourages the Corps to continue to evaluate the need for and benefit of such methods. The Corps is encouraged to also consider the need for additional work on the validation of technologies such as protective coatings. Funding in addition to the budget request is included to support continued efforts related to structural health monitoring, asset management, and non-destructive testing, as appropriate. The Corps is directed to brief the Committee not later than 90 days after the enactment of this Act on its planned activities in each area, future funding requirements of ongoing efforts, and the scope and effectiveness of programs at various annual funding levels.

Water Operations Technical Support (WOTS).—Of the funding provided, $5,000,000 is included to continue research into atmospheric rivers first funded in fiscal year 2015. An additional $2,500,000 is provided to expand this research effort to other locations, as appropriate. Prior to obligating funds for this expanded effort, however, the Corps shall brief the Committees on Appropriations of both Houses of Congress on the details of an expanded effort, including activities to be undertaken, total and annual cost estimates, expected transferability of tools developed or other results of the research, as well as the likelihood of additional investment being necessary.

Emerging Harbor Projects.—The recommendation includes funding for individual projects defined as emerging harbor projects (in section 210(f)(2) of the Water Resources Development Act (WRDA) of 1986) that exceeds the funding levels envisioned in section 210(c)(3) and 210(d)(1)(B)(ii) of WRDA 1986.

Great Lakes Navigation System.—The recommendation includes funding for individual projects within this System that exceeds the funding level envisioned in section 210(d)(1)(B)(ii) of WRDA 1986.

Shoreline Management Policy.—The Committee is aware of concerns regarding the new shoreline management policy for Corps reservoirs within the South Atlantic Division. The Corps is encouraged to continue working with affected local communities and stakeholders to address these concerns, including the use of non-potable water from reservoirs.

Hydropower.—The Committee recognizes that hydropower is an important resource for the energy requirements of our states and local communities. In some areas, such as the Summersville Dam in West Virginia, the Corps works with non-federal partners to provide reliable and affordable energy for the surrounding community. The Committee encourages the Corps to review options for expanded non-federal hydropower at appropriate sites throughout the nation. The Committee anticipates that this would include evaluations of seasonal pool levels and an assessment of the impact of expanding hydropower on safety and operations for the region.

Recreational Access.—The Committee is concerned about reports of the Army Corps of Engineers closing recreational access points and resistance to enhanced recreational proposals including boat docks, handicap access ramps, and general land access points.

Levee Safety.—The Committee notes that previous Water Resources Development Acts have provided authorization for the Corps to carry out certain levee safety initiatives. The Corps shall provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act a briefing on its efforts to implement these initiatives.

REGULATORY PROGRAM

Appropriation, 2018	$200,000,000
Budget estimate, 2019	200,000,000
Recommended, 2019	200,000,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	– – –

This appropriation provides funds to administer laws pertaining to the regulation of activities affecting U.S. waters, including wetlands, in accordance with the Rivers and Harbors Appropriation Act of 1899, the Clean Water Act, and the Marine Protection, Research, and Sanctuaries Act of 1972. Appropriated funds are used to review and process permit applications, ensure compliance on permitted sites, protect important aquatic resources, and support watershed planning efforts in sensitive environmental areas in cooperation with states and local communities.

Public Safety Projects.—The Committee continues to hear that public safety infrastructure projects have been delayed due to excessive and repeated reviews. Many communities depend on these projects to protect their residents from natural disasters. Considering the risk to life and other damages that these disasters inflict upon communities, it is in the public interest to have local governments mitigate for this harm. Therefore, the Committee encourages the Corps to give the public safety aspects of a project sufficient and appropriate consideration when reviewing permit applications.

Timelines.—The Committee is concerned with the disparity in permitting process timelines among the Corps districts, and even more so with those districts whose timelines continue to grow in length. The Committee urges the Corps to encourage timely permitting in its districts, examine best practices among those districts with the lowest permitting timelines, and implement the same across other districts with lagging and protracted timelines.

Additionally, the Committee is concerned that infrastructure projects across the country are being impacted by unnecessary and unlimited delays in the section 401 water quality certification process. The Corps is encouraged to consider providing districts with additional guidance on this issue.

Chehalis Basin Process.—The Committee is pleased with the Seattle District for working in a collaborative process with the Chehalis Basin Process in Washington state for flood protection in the nearby communities. The Committee encourages the District to continue in this effort and further, to sync the NEPA and SEPA processes to gain efficiencies and continue moving the process forward in a timely manner.

Regional General Permits.—The Committee urges the Corps and the National Marine Fisheries Service to continue to evaluate appropriate mitigation options for Seattle District Regional General Permits that take into consideration improvements to existing structures.

Permitting Consultations.—The Committee is aware of sometimes significant delays associated with consultation requests received by the National Marine Fisheries Service (NMFS) from the Army Corps of Engineers. The Committee urges the Corps to work with NMFS to improve this process.

FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM

Appropriation, 2018	$139,000,000
Budget estimate, 2019	120,000,000
Recommended, 2019	150,000,000
Comparison:	
Appropriation, 2018	+11,000,000
Budget estimate, 2019	+30,000,000

This appropriation funds the cleanup of certain low-level radioactive materials and mixed wastes located at sites contaminated as a result of the nation's early efforts to develop atomic weapons.

The Congress transferred the Formerly Utilized Sites Remedial Action Program (FUSRAP) from the Department of Energy to the Corps in fiscal year 1998. In appropriating FUSRAP funds to the Corps, the Committee intended to transfer only the responsibility for administration and execution of cleanup activities at FUSRAP sites where the Department had not completed cleanup. The Committee did not transfer to the Corps ownership of and accountability for real property interests, which remain with the Department. The Committee expects the Department to continue to provide its institutional knowledge and expertise to ensure the success of this program and to serve the nation and the affected communities.

The Committee continues to support the prioritization of sites, especially those that are nearing completion. Within the funds provided in accordance with the budget request, the Corps is directed to complete the Remedial Investigation/Feasibility Study of the former Sylvania nuclear fuel site at Hicksville, New York, and, as appropriate, to proceed expeditiously to a Record of Decision and initiation of any necessary remediation in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

FLOOD CONTROL AND COASTAL EMERGENCIES

Appropriation, 2018	$35,000,000
Budget estimate, 2019	27,000,000
Recommended, 2019	35,000,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	+8,000,000

This appropriation funds planning, training, and other measures that ensure the readiness of the Corps to respond to floods, hurricanes, and other natural disasters, and to support emergency operations in response to such natural disasters, including advance measures, flood fighting, emergency operations, the provision of potable water on an emergency basis, and the repair of certain flood and storm damage reduction projects.

EXPENSES

Appropriation, 2018	$185,000,000
Budget estimate, 2019	187,000,000
Recommended, 2019	187,000,000
Comparison:	
Appropriation, 2018	+2,000,000
Budget estimate, 2019	– – –

This appropriation funds the executive direction and management of the Office of the Chief of Engineers, the Division Offices, and certain research and statistical functions of the Corps.

Alternative financing.—The Committee remains supportive of public-private partnerships (P3) and other alternative financing mechanisms. In fiscal year 2018, the Corps was directed to submit to the Committee not later than 180 days after enactment of the Act a policy on how proposals for public-private partnerships will be considered by the Corps and how these partnerships will be incorporated into the budget policy and to discontinue certain such work until a policy is submitted. The Corps is reminded of the Committee's long-standing concerns that federal funding decisions not be biased by non-federal decisions to construct projects in advance of federal funding or to provide funding in excess of legally required cost shares. The Committee looks forward to reviewing the Corps' alternative financing policy once it has been submitted.

Surplus Water.—The Committee urges the Corps to consider adoption of the alternative definition of "surplus water" excluding "natural flows" from stored water in the Missouri River mainstem reservoirs in its proposed rule entitled "Use of U.S. Army Corps of Engineers Reservoir Projects for Domestic, Municipal & Industrial Water Supply" (82 F.R. 9555).

Materials.—The Committee notes that the Corps worked to raise awareness of the potential for use of cross laminated timber in Corps projects and urges the Corps to continue activities to encourage the use of this innovative advanced wood product, as appropriate.

OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY FOR CIVIL WORKS

Appropriation, 2018	$5,000,000
Budget estimate, 2019	5,000,000
Recommended, 2019	5,000,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	– – –

The Assistant Secretary of the Army for Civil Works oversees the Civil Works budget and policy, whereas the Corps' executive direction and management of the Civil Works program are funded from the Expenses account.

The recommendation includes legislative language restricting the availability of 75 percent of the funding provided in this account until such time as at least 95 percent of the additional funding provided in each account has been allocated to specific programs, projects, or activities. This restriction shall not affect the roles and responsibilities established in previous fiscal years of the Office of the Assistant Secretary of the Army for Civil Works, the Corps headquarters, the Corps field operating agencies, or any other executive branch agency.

The Committee relies on a timely and accessible executive branch in the course of fulfilling its constitutional role in the appropriations process. The requesting and receiving of basic, factual information, such as budget justification materials, is vital in order to maintain a transparent and open governing process. The Committee recognizes that some discussions internal to the executive branch are pre-decisional in nature and, therefore, not subject to disclosure. However, the access to facts, figures, and statistics that inform these decisions are not subject to this same sensitivity and are critical to the budget process. The Administration needs to ensure timely and complete responses to these inquiries.

GENERAL PROVISIONS—CORPS OF ENGINEERS—CIVIL

(INCLUDING TRANSFER OF FUNDS)

The bill continues a provision that prohibits the obligation or expenditure of funds through a reprogramming of funds in this title except in certain circumstances.

The bill continues a provision prohibiting the use of funds in this Act to carry out any contract that commits funds beyond the amounts appropriated for that program, project, or activity.

The bill continues a provision authorizing the transfer of funds to the Fish and Wildlife Service to mitigate for fisheries lost due to Corps of Engineers projects.

The bill includes a provision regarding certain dredged material disposal activities.

The bill includes a provision regarding acquisitions.

The bill includes a provision regarding reallocations at a project.

The bill includes a provision prohibiting the use of funds to require permits for the discharge of dredged or fill material for certain agriculture activities.

The bill includes a provision regarding a rule under the Clean Water Act.

The bill contains a provision allowing the possession of firearms at water resources development projects under certain circumstances.

TITLE II—DEPARTMENT OF THE INTERIOR

CENTRAL UTAH PROJECT

CENTRAL UTAH PROJECT COMPLETION ACCOUNT

Appropriation, 2018	$10,500,000
Budget estimate, 2019	7,983,000
Recommended, 2019	13,000,000
Comparison:	
Appropriation, 2018	+2,500,000
Budget estimate, 2019	+5,017,000

The Central Utah Project Completion Act (CUPCA) (titles II–VI of P.L. 102–575) provides for the completion of the Central Utah Project by the Central Utah Water Conservancy District. The Act also authorizes the appropriation of funds for fish, wildlife, and recreation mitigation and conservation; establishes an account in the Treasury for the deposit of these funds and of other contributions for mitigation and conservation activities; and establishes a Utah Reclamation Mitigation and Conservation Commission to ad-

minister funds in that account. The Act further assigns responsibilities for carrying out the Act to the Secretary of the Interior and prohibits delegation of those responsibilities to the Bureau of Reclamation.

The Committee recommendation includes a total of $13,000,000 for the Central Utah Project Completion Account, which includes $10,703,325 for Central Utah Project construction, $898,000 for transfer to the Utah Reclamation Mitigation and Conservation Account for use by the Utah Reclamation Mitigation and Conservation Commission, and $1,398,675 for necessary expenses of the Secretary of the Interior.

BUREAU OF RECLAMATION

INTRODUCTION

The mission of the Bureau of Reclamation (Reclamation) is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public. Since its establishment by the Reclamation Act of 1902, the Bureau of Reclamation has developed water supply facilities that have contributed to sustained economic growth and an enhanced quality of life in the western states. Lands and communities served by Reclamation projects have been developed to meet agricultural, tribal, urban, and industrial needs. Reclamation continues to develop authorized facilities to store and convey new water supplies and is the largest supplier and manager of water in the 17 western states. Reclamation maintains 338 reservoirs with the capacity to store 245 million acre-feet of water.

As Reclamation's large impoundments and appurtenant facilities reach their design life, the projected cost of operating, maintaining, and rehabilitating Reclamation infrastructure continues to grow, yet Reclamation has not budgeted funding sufficient to implement a comprehensive program to reduce its maintenance backlog. At the same time, Reclamation is increasingly relied upon to provide water supply to federally-recognized Indian Tribes through water settlements, rural communities through its Title I Rural Water Program, and municipalities through its Title XVI Water Reclamation and Reuse Program. Balancing these competing priorities will be challenging and requires active participation and leadership on the part of Reclamation and its technical staff.

Reconsultation.—The Committee is aware that the Bureau of Reclamation initiated reconsultation on the biological opinions regarding the coordinated operations of the Central Valley Project and the California State Water Project. The Committee directs the Secretary of the Interior, acting through the Commissioner of Reclamation, in conjunction with the Director of the Fish and Wildlife Service (FWS), the Secretary of Commerce, and the Administrator of the National Marine Fisheries Service (NMFS), to ensure completion of the biological opinions by May 31, 2020, consistent with Section 4004 of the WIIN Act. Furthermore, the Committee requests the Secretary of the Interior submit to Congress a timeline and plan for the deployment of resources and staff to ensure the biological opinions are completed by the above date, as well as regular subsequent updates until the biological opinions are finalized. In addition, given the complexities surrounding this issue, the

Committee strongly encourages the Secretary of the Interior to work with the Secretary of Commerce to develop a joint biological opinion, to the extent practicable, to minimize conflicts between potential reasonable and prudent alternatives/measures imposed by a biological opinion issued by FWS and a biological opinion imposed by NMFS.

In its notice of intent dated December 29, 2017, the Bureau of Reclamation stated the purpose of this reconsultation is "to evaluate alternatives that maximize water deliveries and optimize marketable power generation consistent with applicable laws, contractual obligations, and agreements; and to augment operational flexibility by addressing the status of listed species." The Committee supports these objectives.

FISCAL YEAR 2019 BUDGET REQUEST AND COMMITTEE RECOMMENDATION

The fiscal year 2019 budget request for the Bureau of Reclamation totals $1,049,025,000. The Committee recommendation totals $1,542,000,000, $72,500,000 above fiscal year 2018 and $492,975,000 above the budget request.

A table summarizing the fiscal year 2018 enacted appropriation, the fiscal year 2019 budget request, and the Committee recommendation is provided below:

(Dollars in thousands)

Account	FY 2018 enacted	FY 2019 request	Cmte rec.
Water and Related Resources	$1,332,124	$891,017	$1,383,992
Central Valley Project Restoration Fund	41,376	62,008	62,008
California Bay-Delta Restoration	37,000	35,000	35,000
Policy and Administration	59,000	61,000	61,000
Total, Bureau of Reclamation	1,469,500	1,049,025	1,542,000

WATER AND RELATED RESOURCES

(INCLUDING TRANSFERS OF FUNDS)

Appropriation, 2018	$1,332,124,000
Budget estimate, 2019	891,017,000
Recommended, 2019	1,383,992,000
Comparison:	
Appropriation, 2018	+51,868,000
Budget estimate, 2019	+492,975,000

The Water and Related Resources account supports the development, construction, management, and restoration of water and related natural resources in the 17 western states. The account includes funds for operating and maintaining existing facilities to obtain the greatest overall levels of benefits, to protect public safety, and to conduct studies on ways to improve the use of water and related natural resources.

The budget request for this account and the approved Committee allowance are shown on the following table:

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
ARIZONA						
AK CHIN INDIAN WATER RIGHTS SETTLEMENT ACT PROJECT	---	16,200	16,200	---	16,200	16,200
COLORADO RIVER BASIN - CENTRAL ARIZONA PROJECT	6,272	648	6,920	6,272	648	6,920
COLORADO RIVER FRONT WORK AND LEVEE SYSTEM	2,303	---	2,303	2,303	---	2,303
SALT RIVER PROJECT	649	250	899	649	250	899
SAN CARLOS APACHE TRIBE WATER SETTLEMENT ACT PROJECT	1,550	---	1,550	1,550	---	1,550
YUMA AREA PROJECTS	1,183	22,626	23,809	1,183	22,626	23,809
CALIFORNIA						
CACHUMA PROJECT	778	790	1,568	778	790	1,568
CENTRAL VALLEY PROJECT:						
AMERICAN RIVER DIVISION, FOLSOM DAM UNIT/MORMON ISLAND	1,377	8,838	10,215	1,377	8,838	10,215
AUBURN-FOLSOM SOUTH UNIT	35	2,184	2,219	35	2,184	2,219
DELTA DIVISION	4,812	6,772	11,584	4,812	6,772	11,584
EAST SIDE DIVISION	1,290	2,772	4,062	1,290	2,772	4,062
FRIANT DIVISION	1,393	3,324	4,717	1,393	3,324	4,717
SAN JOAQUIN RIVER RESTORATION SETTLEMENT	35,000	---	35,000	---	---	---
MISCELLANEOUS PROJECT PROGRAMS	8,771	400	9,171	8,771	400	9,171
REPLACEMENTS, ADDITIONS, AND EXTRAORDINARY MAINT. PROGRAM	---	17,444	17,444	---	17,444	17,444
SACRAMENTO RIVER DIVISION	1,675	495	2,170	1,675	495	2,170
SAN FELIPE DIVISION	185	98	283	185	98	283
SHASTA DIVISION	474	9,460	9,934	474	9,460	9,934
TRINITY RIVER DIVISION	12,291	4,777	17,068	12,291	4,777	17,068
WATER AND POWER OPERATIONS	3,989	10,793	14,782	3,989	10,793	14,782
WEST SAN JOAQUIN DIVISION, SAN LUIS UNIT	3,219	5,681	8,900	3,219	5,681	8,900
ORLAND PROJECT	---	873	873	---	873	873

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
SALTON SEA RESEARCH PROJECT	300	---	300	300	---	300
SOLANO PROJECT	1,162	2,534	3,696	1,162	2,534	3,696
VENTURA RIVER PROJECT	400	36	436	400	36	436
COLORADO						
ANIMAS-LA PLATA PROJECT	612	2,185	2,797	612	2,185	2,797
ARMEL UNIT, P-SMBP	10	393	403	10	393	403
COLLBRAN PROJECT	185	2,416	2,601	185	2,416	2,601
COLORADO-BIG THOMPSON PROJECT	198	13,727	13,925	198	13,727	13,925
FRUITGROWERS DAM PROJECT	50	139	189	50	139	189
FRYINGPAN-ARKANSAS PROJECT	152	12,424	12,576	152	12,424	12,576
GRAND VALLEY UNIT, CRBSCP, TITLE II	506	2,326	2,832	506	2,326	2,832
LEADVILLE/ARKANSAS RIVER RECOVERY PROJECT	---	2,586	2,586	---	2,586	2,586
MANCOS PROJECT	78	420	498	78	420	498
NARRROWS UNIT, P-SMBP	---	38	38	---	38	38
PARADOX VALLEY UNIT, CRBSCP, TITLE II	1,502	2,811	4,313	1,502	2,811	4,313
PINE RIVER PROJECT	79	388	467	79	388	467
SAN LUIS VALLEY PROJECT, CLOSED BASIN	118	2,832	2,950	118	2,832	2,950
SAN LOUIS VALLEY PROJECT, CONEJOS DIVISION	16	34	50	16	34	50
UNCOMPAHGRE PROJECT	767	174	941	767	174	941
UPPER COLORADO RIVER OPERATIONS PROGRAM	870	---	870	870	---	870
IDAHO						
BOISE AREA PROJECTS	3,014	2,571	5,585	3,014	2,571	5,585
COLUMBIA AND SNAKE RIVER SALMON RECOVERY PROJECT	19,000	---	19,000	19,000	---	19,000
LEWISTON ORCHARDS PROJECT	1,383	27	1,410	1,383	27	1,410

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
MINIDOKA AREA PROJECTS	2,188	3,475	5,663	2,188	3,475	5,663
PRESTON BENCH PROJECT	14	33	47	14	33	47
KANSAS						
ALMENA UNIT, P-SMBP	44	481	525	44	481	525
BOSTWICK UNIT, P-SMBP	331	935	1,266	331	935	1,266
CEDAR BLUFF UNIT, P-SMBP	39	535	574	39	535	574
GLEN ELDER UNIT, P-SMBP	71	3,402	3,473	71	3,402	3,473
KANSAS RIVER UNIT, P-SMBP	---	102	102	---	102	102
KIRWIN UNIT, P-SMBP	17	446	463	17	446	463
WEBSTER UNIT, P-SMBP	16	481	497	16	481	497
WICHITA PROJECT - CHENEY DIVISION	88	403	491	88	403	491
MONTANA						
CANYON FERRY UNIT, P-SMBP	238	5,009	5,247	238	5,009	5,247
EAST BENCH UNIT, P-SMBP	59	666	725	59	666	725
FORT PECK RESERVATION / DRY PRAIRIE RURAL WATER SYSTEM	4,731	---	4,731	4,731	---	4,731
HELENA VALLEY UNIT, P-SMBP	5	166	171	5	166	171
HUNGRY HORSE PROJECT	---	434	434	---	434	434
HUNTLEY PROJECT	7	46	53	7	46	53
LOWER MARIAS UNIT, P-SMBP	91	1,508	1,599	91	1,508	1,599
LOWER YELLOWSTONE PROJECT	716	30	746	716	30	746
MILK RIVER PROJECT	447	1,467	1,914	447	1,467	1,914
MISSOURI BASIN O&M, P-SMBP	1,047	117	1,164	1,047	117	1,164
ROCKY BOYS/NORTH CENTRAL MT RURAL WATER SYSTEM	3,984	---	3,984	3,984	---	3,984
SUN RIVER PROJECT	52	268	320	52	268	320
YELLOWTAIL UNIT, P-SMBP	22	8,939	8,961	22	8,939	8,961

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
NEBRASKA						
AINSWORTH UNIT, P-SMBP	69	131	200	69	131	200
FRENCHMAN-CAMBRIDGE UNIT, P-SMBP	372	1,964	2,336	372	1,964	2,336
MIRAGE FLATS PROJECT	13	98	111	13	98	111
NORTH LOUP UNIT, P-SMBP	93	140	233	93	140	233
NEVADA						
LAHONTAN BASIN PROJECT	4,992	4,859	9,851	4,992	4,859	9,851
LAKE TAHOE REGIONAL DEVELOPMENT PROGRAM	115	---	115	115	---	115
LAKE MEAD /LAS VEGAS WASH PROGRAM	700	---	700	700	---	700
NEW MEXICO						
CARLSBAD PROJECT	2,551	1,300	3,851	2,551	1,300	3,851
MIDDLE RIO GRANDE PROJECT	12,634	10,885	23,519	12,634	10,885	23,519
RIO GRANDE PROJECT	1,860	5,074	6,934	1,860	5,074	6,934
RIO GRANDE PUEBLOS PROJECT	1,000	---	1,000	1,000	---	1,000
TUCUMCARI PROJECT	15	16	31	15	16	31
NORTH DAKOTA						
DICKINSON UNIT, P-SMBP	---	449	449	---	449	449
GARRISON DIVERSION UNIT, P-SMBP	9,221	12,284	21,505	9,221	12,284	21,505
HEART BUTTE UNIT, P-SMBP	82	1,326	1,408	82	1,326	1,408

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
OKLAHOMA						
ARBUCKLE PROJECT	66	183	249	66	183	249
MCGEE CREEK PROJECT	124	835	959	124	835	959
MOUNTAIN PARK PROJECT	34	673	707	34	673	707
NORMAN PROJECT	72	310	382	72	310	382
WASHITA BASIN PROJECT	240	1,093	1,333	240	1,093	1,333
W.C. AUSTIN PROJECT	57	555	612	57	555	612
OREGON						
CROOKED RIVER PROJECT	268	457	725	268	457	725
DESCHUTES PROJECT	386	189	575	386	189	575
EASTERN OREGON PROJECTS	471	216	687	471	216	687
KLAMATH PROJECT	13,755	3,745	17,500	13,755	3,745	17,500
ROGUE RIVER BASIN PROJECT, TALENT DIVISION	1,774	615	2,389	1,774	615	2,389
TUALATIN PROJECT	177	216	393	177	216	393
UMATILLA PROJECT	572	2,549	3,121	572	2,549	3,121
SOUTH DAKOTA						
ANGOSTURA UNIT, P-SMBP	130	688	818	130	688	818
BELLE FOURCHE UNIT, P-SMBP	385	836	1,221	385	836	1,221
KEYHOLE UNIT, P-SMBP	198	720	918	198	720	918
LEWIS AND CLARK RURAL WATER SYSTEM	100	---	100	100	---	100
MID-DAKOTA RURAL WATER PROJECT	---	15	15	---	15	15
MNI WICONI PROJECT	---	13,475	13,475	---	13,475	13,475
OAHE UNIT, P-SMBP	37	73	110	37	73	110
RAPID VALLEY PROJECT	---	79	79	---	79	79

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
RAPID VALLEY UNIT, P-SMBP	---	208	208	---	208	208
SHADEHILL UNIT, P-SMBP	153	466	619	153	466	619
TEXAS						
BALMORHEA PROJECT	37	13	50	37	13	50
CANADIAN RIVER PROJECT	57	88	145	57	88	145
LOWER RIO GRANDE WATER CONSERVATION PROGRAM	50	---	50	50	---	50
NUECES RIVER PROJECT	107	869	976	107	869	976
SAN ANGELO PROJECT	37	594	631	37	594	631
UTAH						
HYRUM PROJECT	90	197	287	90	197	287
MOON LAKE PROJECT	19	105	124	19	105	124
NEWTON PROJECT	50	104	154	50	104	154
OGDEN RIVER PROJECT	286	224	510	286	224	510
PROVO RIVER PROJECT	1,191	512	1,703	1,191	512	1,703
SANPETE PROJECT	59	13	72	59	13	72
SCOFIELD PROJECT	253	99	352	253	99	352
STRAWBERRY VALLEY PROJECT	751	46	797	751	46	797
WEBER BASIN PROJECT	1,082	959	2,041	1,082	959	2,041
WEBER RIVER PROJECT	100	198	298	100	198	298
WASHINGTON						
COLUMBIA BASIN PROJECT	4,436	8,473	12,909	4,436	8,473	12,909
WASHINGTON AREA PROJECTS	329	138	467	329	138	467

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
YAKIMA PROJECT	744	6,083	6,827	744	6,083	6,827
YAKIMA RIVER BASIN WATER ENHANCEMENT PROJECT	13,200	---	13,200	13,200	---	13,200
WYOMING						
BOYSEN UNIT, P-SMBP	191	1,893	2,084	191	1,893	2,084
BUFFALO BILL DAM DAM MODIFICATION, P-SMBP	33	2,764	2,797	33	2,764	2,797
KENDRICK PROJECT	68	4,047	4,115	68	4,047	4,115
NORTH PLATTE PROJECT	78	1,209	1,287	78	1,209	1,287
NORTH PLATTE AREA, P-SMBP	72	5,437	5,509	72	5,437	5,509
OWL CREEK UNIT, P-SMBP	6	99	105	6	99	105
RIVERTON UNIT, P-SMBP	8	580	588	8	580	588
SHOSHONE PROJECT	34	761	795	34	761	795
SUBTOTAL, PROJECTS	207,939	293,656	501,595	172,939	293,656	466,595
REGIONAL PROGRAMS						
ADDITIONAL FUNDING FOR ONGOING WORK:						
RURAL WATER	---	---	---	98,740	---	98,740
FISH PASSAGE AND FISH SCREENS	---	---	---	5,000	---	5,000
WATER CONSERVATION AND DELIVERY	---	---	---	260,000	---	260,000
ENVIRONMENTAL RESTORATION OR COMPLIANCE	---	---	---	20,000		20,000
FACILITIES OPERATION, MAINTENANCE, AND REHABILITATION	---	---	---		37,507	37,507
COLORADO RIVER BASIN SALINITY CONTROL PROJECT, TITLE I	1,934	13,519	15,453	1,934	13,519	15,453
COLORADO RIVER BASIN SALINITY CONTROL PROJECT, TITLE II	6,000	---	6,000	6,000	---	6,000
COLORADO RIVER STORAGE PROJECT (CRSP), SECTION 5	3,513	6,397	9,910	3,513	6,397	9,910
COLORADO RIVER STORAGE PROJECT (CRSP), SECTION 8	3,347	---	3,347	3,347	---	3,347
COLORADO RIVER WATER QUALITY IMPROVEMENT PROJECT	940	---	940	940	---	940

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
DAM SAFETY PROGRAM:						
DEPARTMENT OF THE INTERIOR DAM SAFETY PROGRAM	---	1,300	1,300	---	1,300	1,300
INITIATE SAFETY OF DAMS CORRECTIVE ACTION	---	66,500	66,500	---	66,500	66,500
SAFETY EVALUATION OF EXISTING DAMS	---	20,284	20,284	---	20,284	20,284
EMERGENCY PLANNING & DISASTER RESPONSE PROGRAM	---	1,300	1,300	---	1,300	1,300
ENDANGERED SPECIES RECOVERY IMPLEMENTATION PROGRAM	19,152	---	19,152	19,152	---	19,152
ENVIRONMENTAL PROGRAM ADMINISTRATION	1,844	---	1,844	1,844	---	1,844
EXAMINATION OF EXISTING STRUCTURES	---	9,123	9,123	---	9,123	9,123
GENERAL PLANNING ACTIVITIES	2,000	---	2,000	2,000	---	2,000
INDIAN WATER RIGHTS SETTLEMENTS:						
AAMODT LITIGATION SETTLEMENT	8,301	---	8,301	8,301	---	8,301
BLACKFEET SETTLEMENT	10,000	---	10,000	10,000	---	10,000
CROW TRIBE RIGHTS	12,772	---	12,772	12,772	---	12,772
NAVAJO GALLUP	68,932	671	69,603	68,932	671	69,603
LAND RESOURCES MANAGEMENT PROGRAM	10,684	---	10,684	10,684	---	10,684
LOWER COLORADO RIVER OPERATIONS PROGRAM	31,176	---	31,176	31,176	---	31,176
MISCELLANEOUS FLOOD CONTROL OPERATIONS	---	980	980	---	980	980
NATIVE AMERICAN AFFAIRS PROGRAM	10,571	---	10,571	10,571	---	10,571
NEGOTIATION & ADMINISTRATION OF WATER MARKETING	2,462	---	2,462	2,462	---	2,462
OPERATION & PROGRAM MANAGEMENT	1,204	2,437	3,641	1,204	2,437	3,641
POWER PROGRAM SERVICES	2,193	307	2,500	2,193	307	2,500
PUBLIC ACCESS AND SAFETY PROGRAM	600	206	806	600	206	806
RECLAMATION LAW ADMINISTRATION	2,148	---	2,148	2,148	---	2,148
RECREATION & FISH & WILDLIFE PROGRAM ADMINISTRATION	6,497	---	6,497	6,497	---	6,497
RESEARCH AND DEVELOPMENT:						
DESALINATION AND WATER PURIFICATION PROGRAM	1,753	1,150	2,903	13,753	1,150	14,903
SCIENCE AND TECHNOLOGY PROGRAM	11,014	---	11,014	11,014	---	11,014
SITE SECURITY ACTIVITIES	---	26,220	26,220	---	26,220	26,220
UNITED STATES/MEXICO BORDER ISSUES - TECHNICAL SUPPORT	90	---	90	90	---	90

WATER AND RELATED RESOURCES
(AMOUNTS IN THOUSANDS)

	BUDGET REQUEST			HOUSE RECOMMENDED		
	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL	RESOURCES MANAGEMENT	FACILITIES OM&R	TOTAL
WATERSMART PROGRAM:						
WATERSMART GRANTS	10,000	---	10,000	34,000	---	34,000
WATER CONSERVATION FIELD SERVICES PROGRAM	1,750	---	1,750	4,179	---	4,179
COOPERATIVE WATERSHED MANAGEMENT	250	---	250	2,250	---	2,250
BASIN STUDIES	2,000	---	2,000	5,200	---	5,200
DROUGHT RESPONSE & COMPREHENSIVE DROUGHT PLANS	2,901	---	2,901	4,000	---	4,000
TITLE XVI WATER RECLAMATION & REUSE PROGRAM	3,000	---	3,000	65,000	---	65,000
SUBTOTAL, REGIONAL PROGRAMS	239,028	150,394	389,422	729,496	187,901	917,397
TOTAL, WATER AND RELATED RESOURCES	446,967	444,050	891,017	902,435	481,557	1,383,992

Central Valley Project, San Luis Unit, California.—The Committee is aware that Reclamation and the Western Area Power Administration are evaluating the possible construction of a transmission line to directly serve the San Luis Unit from the Central Valley Project system as an alternative to receiving service under the California Independent System Operator's Tariff. The agencies are encouraged to continue to work together and with the affected Central Valley Project water contractors to ensure the most efficient and cost-effective process for implementation.

Salton Sea, California.—The Committee supports the Memorandum of Understanding signed between the Department of the Interior and the California Natural Resources Agency to support management activities at the Salton Sea.

Tualatin Project, Scoggins Dam, Oregon.—The Committee supports the budget request for preconstruction activities at Scoggins Dam under the Safety of Dams program. Consistent with existing authorities, the Committee encourages Reclamation to evaluate alternatives, including new or supplementary works, to address dam safety modifications and increased storage capacity provided that safety remains the paramount consideration. Considering the high risk associated with Scoggins Dam, the Committee urges Reclamation to work with local stakeholders and repayment contractors on this joint project, including feasibility and environmental review of the preferred alternative. The Committee has been told that a replacement structure downstream could significantly reduce project costs for both the federal government and local stakeholders. Reclamation may accept contributed funds from non-federal contractors to expedite completion of any level of review.

Mni Wiconi Project, South Dakota.—Reclamation is directed to continue working with the Tribes and relevant federal agencies, such as the Department of Agriculture, the Environmental Protection Agency, the Bureau of Indian Affairs, the Indian Health Service, and the Department of Housing and Urban Development, to coordinate use of all existing authorities and funding sources to finish needed community system upgrades and connections, as well as any transfers of those systems, as quickly as possible. The Administration is encouraged to include appropriate funding for upgrades in future budget requests.

Yakima River Basin Water Enhancement Project Integrated Plan, Washington.—The Committee is aware of the Integrated Plan that has been developed by the Yakima River Basin Water Enhancement Project Working Group, including the Bureau of Reclamation, to address water storage and water supply needs for agriculture, fish, and municipalities within the Yakima River Basin in Central Washington. The Committee is supportive of the Plan and encourages the Bureau to move forward on implementing authorized components of the Plan.

Additional Funding for Water and Related Resources Work.—The recommendation includes funds in addition to the budget request for Water and Related Resources studies, projects, and activities. Priority in allocating these funds should be given to advance and complete ongoing work, including preconstruction activities and where environmental compliance has been completed; improve water supply reliability; improve water deliveries; enhance national, regional, or local economic development; promote job growth;

advance tribal and nontribal water settlement studies and activities; or address critical backlog maintenance and rehabilitation activities. Of the additional funding provided under the heading "Water Conservation and Delivery", $134,000,000 shall be for water storage projects as authorized in section 4007 of Public Law 114–322.

Not later than 45 days after the enactment of this Act, Reclamation shall provide to the Committees on Appropriations of both Houses of Congress a report delineating how these funds are to be distributed, in which phase the work is to be accomplished, and an explanation of the criteria and rankings used to justify each allocation.

Reclamation is reminded that activities authorized under Indian Water Rights Settlements and under section 206 of Public Law 113–235 are eligible to compete for the additional funding provided under "Water Conservation and Delivery".

Research and Development: Desalination and Water Purification Program.—Of the funding provided for this program, $12,000,000 shall be for desalination projects as authorized in section 4009(a) of Public Law 114–322.

WaterSMART Program: Title XVI Water Reclamation & Reuse Program.—Of the funding provided for this program, $20,000,000 shall be for water recycling and reuse projects as authorized in section 4009(c) of Public Law 114–322.

Hydroelectric Dams.—The Committee has heard concerns about potential impacts to rural communities from proposals to remove hydropower-producing dams. The Committee directs that where Reclamation has a role in funding, carrying out, or approving the removal of a hydropower-producing dam, Reclamation shall, prior to taking any such action, study the environmental and fiscal impact of dam removal on the county or counties where the dams are located.

WIIN Act Studies.—The Committee encourages Reclamation to continue to make progress on studies authorized in the WIIN Act.

CENTRAL VALLEY PROJECT RESTORATION FUND

Appropriation, 2018	$41,376,000
Budget estimate, 2019	62,008,000
Recommended, 2019	62,008,000
Comparison:	
Appropriation, 2018	+20,632,000
Budget estimate, 2019	– – –

This fund was established to carry out the provisions of the Central Valley Project Improvement Act and to provide funding for habitat restoration, improvement and acquisition, and other fish and wildlife restoration activities in the Central Valley area of California. Resources are derived from donations, revenues from voluntary water transfers and tiered water pricing, and Friant Division surcharges. The account also is financed through additional mitigation and restoration payments collected on an annual basis from project beneficiaries.

Within available funds, the Committee provides funding for programs and activities according to the Administration's request. The Committee notes that the increase for this account in the budget request and recommendation is based on a three-year rolling average of collections, in accordance with the authorizing statute.

Anadromous Fish Screen Program.—The Committee has heard concerns about a potential disconnect between funding levels requested and ultimately allocated for the Anadromous Fish Screen Program. Reclamation is directed to submit to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act, an account of the Anadromous Fish Screen Program funding level requested, allocated, and obligated, including specification of any administrative costs, from each funding source in each of the previous five fiscal years. The Committee encourages Reclamation to continue its focus on screening of the remaining high priority diversions from within funds made available under the Central Valley Project Restoration Fund in future budget requests.

CALIFORNIA BAY-DELTA RESTORATION

(INCLUDING TRANSFERS OF FUNDS)

Appropriation, 2018	$37,000,000
Budget estimate, 2019	35,000,000
Recommended, 2019	35,000,000
Comparison:	
Appropriation, 2018	−2,000,000
Budget estimate, 2019	– – –

The California Bay-Delta Restoration account funds the federal share of water supply and reliability improvements, ecosystem improvements, and other activities being developed for the Sacramento-San Joaquin Delta and associated watersheds by a state and federal partnership (CALFED). Federal participation in this program was initially authorized in the California Bay-Delta Environmental and Water Security Act enacted in 1996.

POLICY AND ADMINISTRATION

Appropriation, 2018	$59,000,000
Budget estimate, 2019	61,000,000
Recommended, 2019	61,000,000
Comparison:	
Appropriation, 2018	+2,000,000
Budget estimate, 2019	– – –

The Policy and Administration account provides for the executive direction and management of all Reclamation activities, as performed by the Commissioner's office in Washington, D.C.; the Technical Service Center in Denver, Colorado; and in five regional offices. The Denver and regional offices charge individual projects or activities for direct beneficial services and related administrative and technical costs. These charges are covered under other appropriations.

The Committee recommends that Reclamation work with all Reclamation states to ensure that counties and municipalities are aware of relevant programs and funding opportunities.

ADMINISTRATIVE PROVISION

The bill includes an administrative provision allowing for the purchase of passenger motor vehicles.

GENERAL PROVISIONS—DEPARTMENT OF THE INTERIOR

The bill continues a provision regarding the circumstances in which the Bureau of Reclamation may reprogram funds.

The bill continues a provision regarding the San Luis Unit and Kesterson Reservoir in California.

The bill makes permanent a provision regarding aquifer recharge.

The bill continues a provision regarding a feasibility study.

The bill includes a provision regarding the San Joaquin River Restoration program.

The bill continues a provision regarding instream flows.

TITLE III—DEPARTMENT OF ENERGY

INTRODUCTION

Funds recommended in Title III provide for all Department of Energy (DOE) programs, including Energy Efficiency and Renewable Energy; Cybersecurity, Energy Security, and Emergency Response; Electricity Delivery; Nuclear Energy; Fossil Energy Research and Development; Naval Petroleum and Oil Shale Reserves; the Strategic Petroleum Reserve; SPR Petroleum Account; the Northeast Home Heating Oil Reserve; the Energy Information Administration; Non-Defense Environmental Cleanup; the Uranium Enrichment Decontamination and Decommissioning Fund; Science; Nuclear Waste Disposal; Advanced Research Projects Agency—-Energy; Innovative Technology Loan Guarantee Program; Advanced Technology Vehicle Manufacturing Loans Program; Tribal Energy Loan Guarantee Program; Departmental Administration; Office of the Inspector General; the National Nuclear Security Administration (Weapons Activities, Defense Nuclear Nonproliferation, Naval Reactors, and Federal Salaries and Expenses); Defense Environmental Cleanup; Other Defense Activities; Defense Nuclear Waste Disposal; the Power Marketing Administrations; and the Federal Energy Regulatory Commission.

COMMITTEE RECOMMENDATION

The Department of Energy has requested a total budget of $30,146,071,000 in fiscal year 2019 to fund programs in its four primary mission areas: science, energy, environment, and national security. The Department of Energy budget request is $4,373,978,000 below the fiscal year 2018 enacted level.

Research and Development Policy.—The President's budget request proposes to refocus the Department on an early-stage research and development mission. Early-stage research and development has an appropriate place in a balanced research portfolio. However, the Committee believes that a focus on only early-stage activities will forego the nation's scientific capabilities in medium- and later-stage research and development and may not fully realize the technological advancements possible under the Department's applied energy activities. The Committee provides funding to support a more comprehensive approach that includes medium and later-stage research, development, deployment, and demonstration activities. The Department is expected to follow this comprehensive approach and expend funding in an expeditious manner, to include

the issuance of funding opportunity announcements and awards of funds.

Electricity Delivery and Energy Reliability.—The Committee notes that the budget request proposed to split the Electricity Delivery and Energy Reliability program into two new accounts: "Cybersecurity, Energy Security, and Emergency Response" and "Electricity Delivery". The Committee accepts this new account structure. The "Cybersecurity, Energy Security, and Emergency Response" account includes the subprograms "Cybersecurity for Energy Delivery Systems" and "Infrastructure Security and Energy Restoration". The "Electricity Delivery" account contains all other subprograms that were previously funded as part of the Electricity Delivery and Energy Reliability program. In addition, each account contains separate Program Direction funding.

CONGRESSIONAL DIRECTION

Article I, section 9 of the United States Constitution states, "No money shall be drawn from the Treasury but in consequence of Appropriations made by law."

The Committee continues the Department's reprogramming authority in statute to ensure that the Department carries out its programs consistent with congressional direction. This reprogramming authority is established at the program, project, or activity level, whichever is the most specific level of budget items identified in this Act and the Committee report accompanying the Act. The Committee also prohibits new starts through the use of reprogramming and includes other direction to improve public oversight of the Department's actions. In addition, the recommendation continues a general provision specifying which transfer authorities may be used for accounts funded by this Act. The Committee recommendation includes a general provision that specifies the amount of funding that may be transferred from the Department's accounts to the DOE working capital fund in aggregate, consistent with the authorities provided by section 653 of the Department of Energy Organization Act (42 U.S.C. 7263).

FINANCIAL REPORTING AND MANAGEMENT

The Department still is not in compliance with its statutory requirement to submit to Congress, at the time that the President's budget request is submitted, a future-years energy program that covers the fiscal year of the budget submission and the four succeeding years, as directed in the fiscal year 2012 Act. In addition, the Department has an outstanding requirement to submit a plan to become fully compliant with this requirement.

Working Capital Fund.—The Committee recommends $274,833,000, the same as fiscal year 2018, for transfers to the fund in fiscal year 2019, after accounting for the shift of CyberOne activities to Departmental Administration. Guidelines for the Department's working capital fund are provided in 42 U.S.C. 7263, which authorizes the use of the working capital fund for expenses necessary for the maintenance and operation of common administrative services. The use of the fund for cybersecurity is not specifically authorized and is not appropriate considering direct funding is also requested and appropriated within funds for the Chief Information Officer within Departmental Administration. The Depart-

ment shall include all funding required for CyberOne and other related cybersecurity needs in its budget request for Departmental Administration in future budget requests.

Alleviation of Poverty.—In its fiscal year 2016 report, the Committee directed the Department to provide a report detailing all domestic and international projects and programs within its jurisdiction that contribute to the alleviation of poverty. The Department is encouraged to provide this report not later than 90 days after the enactment of this Act.

Workplace Diversity.—The Committee recognizes the importance of workplace diversity in the Department of Energy's national laboratories. The Committee encourages the Department to continue to develop and broaden partnerships with minority serving institutions, including Hispanic Serving Institutions, Historically Black Colleges and Universities, Asian and Pacific Islander Serving Institutions, Predominantly Black Institutions, Tribal Colleges, and other Minority Serving Institutions. The Committee notes that the fiscal year 2017 Act directed the Department to provide a detailed plan outlining efforts to recruit and retain diverse talent from the institutions mentioned above. The Department is encouraged to provide this plan not later than 90 days after the enactment of this Act.

Public Access Plan.—The Committee appreciates the Department issuing its Public Access Plan on July 24, 2014. The Committee urges the Department to continue efforts towards full implementation of the plan and expects an update on progress be included in the fiscal year 2020 budget request.

Improper Payments.—The Committee continues to be concerned that the Department is failing in its responsibility to ensure that its maintenance and operating contracts with incurred costs valued at billions of dollars per year are being audited appropriately and in a timely manner. The Department was directed in the fiscal year 2015 Act to carry out a plan to improve its cost audit coverage, but has not reported any progress on issues identified by the DOE Inspector General (IG) associated with the Department's cost audit coverage. The DOE IG continues to track nearly a billion dollars in potentially unallowable and unresolved amounts on DOE contracts. In May 2017, the Government Accountability Office (GAO) found that DOE does not use leading practices for managing fraud risks, such as data analytics, that can help agencies detect fraudulent spending or other improper payments. The GAO made six recommendations that remain open. Nevertheless, the Department claims that it had an industry leading low improper payment rate of 0.07% for fiscal year 2015, far below the government-wide improper payment rate of 4.8%. In claiming this figure, the Department is clearly not accounting for payments that it has simply failed to audit and resolve. It is also not evident that the Department is capturing data on payments made to its contractors that are later determined to be an unallowable cost. The Committee directs the Comptroller General to investigate the Department's system of tracking unallowable, disputed, or improper payments and provide recommendations to improve the Department's methodology for reporting accurate, representative, and meaningful data on improper payments. Furthermore, the Department is directed to provide to the Committees on Appropriations of both Houses of

Congress not later than 90 days after the enactment of this Act a plan for removing the Department of Energy from the GAO's High Risk List for Fraud, Waste, and Abuse for its maintenance and operating contracts. This plan shall include actions to improve contract auditing and the tracking of meaningful data for fraud, waste, and abuse in its contracts.

Supporting Information.—The Committee relies on a timely and accessible executive branch in the course of fulfilling its constitutional role in the appropriations process. The requesting and receiving of basic, factual information is vital in order to maintain a transparent and open governing process. The Committee recognizes that some discussions internal to the executive branch are predecisional in nature and, therefore, not subject to disclosure. However, access to facts, figures, and statistics that inform these decisions are not subject to this same sensitivity and are critical to the budget process. The Administration needs to ensure timely and complete responses to these inquiries.

MANAGEMENT OF SPENT NUCLEAR FUEL AND DEFENSE WASTE

The Committee fully supports the Administration's position to move forward with Yucca Mountain. The Department, together with the Nuclear Regulatory Commission (NRC), has repeatedly confirmed over the years that Yucca Mountain is a safe and secure location to permanently store the nation's spent nuclear fuel and high-level radioactive waste. However, many more steps remain before Yucca Mountain begins to accept waste. The Department's request restarts this process and brings the Department closer to fulfilling its legal obligation to take responsibility for storing the nation's nuclear waste. The Committee appreciates the Department's focus on Yucca Mountain and provides additional funds above the budget request to accelerate progress toward meeting the Department's goals.

To restart the adjudication of the Yucca Mountain license application, the Committee provides a total of $267,700,000, an increase of $100,000,000 above the budget request. Funding for Yucca is provided in the following three accounts: $190,000,000 for Nuclear Waste Disposal, $30,000,000 for Defense Nuclear Waste Disposal, and $47,700,000 within the NRC.

COMMONLY RECYCLED PAPER

The Department shall not expend funds for projects that knowingly use as a feedstock commonly recycled paper that is segregated from municipal solid waste or collected as part of a collection system that commingles commonly recycled paper with other solid waste at any point from the time of collection through materials recovery.

EDUCATIONAL ACTIVITIES

The Department is prohibited from funding fellowship and scholarship programs in fiscal year 2019 unless the programs were explicitly included in the budget justification or funded within this recommendation. Any new or ongoing programs that the Department chooses to fund in fiscal year 2019 must be detailed in the fiscal year 2019 budget justifications.

PROJECT MANAGEMENT

The Committee notes that the Department is not meeting its statutory annual reporting requirements for its general plant projects. In addition, the Department has not been consistently reporting the details of its general plant projects across Departmental programs in its budget request. Not later than 60 days after the enactment of this Act, the Department shall provide to the Committees on Appropriations of both Houses of Congress a report on all general plant projects funded in fiscal years 2017, 2018, and 2019. The Department shall ensure that all general plant projects are clearly identified in the appropriate sections of its fiscal year 2020 budget request and that a full description with total costs is included for each project.

REPROGRAMMING AND TRANSFER GUIDELINES

The Committee requires the Department to inform the Committee promptly when a change in program execution and funding is required during the fiscal year. The Department's reprogramming requirements are detailed in statute. To assist the Department in this effort, the following guidance is provided for programs and activities.

Definition.—A reprogramming includes the reallocation of funds from one activity to another within an appropriation. The recommendation includes a general provision providing internal reprogramming authority to the Department, as long as no program, project, or activity is increased or decreased by more than $5,000,000 or 10 percent, whichever is less, compared to the levels in the table detailing the Committee's recommendations for the Department's various accounts. For construction projects, a reprogramming constitutes the reallocation of funds from one construction project to another project or a change of $2,000,000 or 10 percent, whichever is less, in the scope of an approved project.

Criteria for Reprogramming.—A reprogramming should be made only when an unforeseen situation arises, and then only if delay of the project or activity until the next fiscal year would result in a detrimental impact to an agency program or priority. A reprogramming may also be considered if the Department can show that significant cost savings can accrue by increasing funding for an activity. Mere convenience or preference should not be a factor for consideration. A reprogramming may not be employed to initiate new programs or to change program, project, or activity allocations specifically denied, limited, or increased by the Congress in the Act or report.

Reporting and Approval Procedures.—In recognition of the security missions of the Department, the legislative guidelines allow the Secretary and the Administrator of the National Nuclear Security Administration jointly to waive the reprogramming restriction by certifying to the Committees on Appropriations of both Houses of Congress that it is in the nation's security interest to do so. The Department shall not deviate from the levels for activities specified in the report that are below the level of the detail table, except through the regular notification procedures of the Committee. No funds may be added to programs for which funding has been denied. Any reallocation of new or prior-year budget authority or

prior-year de-obligations, or any request to implement a reorganization that includes moving previous appropriations between appropriations accounts must be submitted to the Committees on Appropriations of both Houses of Congress in writing and may not be implemented prior to approval by the Committees.

Transfers.—As in fiscal year 2018, funding actions into or out of accounts funded by this Act may only be made by transfer authorities provided by this or other appropriations Acts.

COMMITTEE RECOMMENDATIONS

The Committee's recommendations for Department of Energy programs in fiscal year 2019 are described in the following sections. A detailed funding table is included at the end of this title.

ENERGY PROGRAMS

ENERGY EFFICIENCY AND RENEWABLE ENERGY

Appropriation, 2018	$2,321,778,000
Budget estimate, 2019	695,610,000
Recommended, 2019	2,078,640,000
Comparison:	
Appropriation, 2018	−243,138,000
Budget estimate, 2019	+1,383,030,000

Energy Efficiency and Renewable Energy (EERE) programs include research, development, demonstration, and deployment activities advancing energy efficiency and renewable energy technologies, as well as federal energy assistance programs. The EERE program is divided into three portfolios: sustainable transportation, renewable energy, and energy efficiency. The sustainable transportation portfolio, which consists of the vehicles, bioenergy, and hydrogen and fuel cell programs, advances the development of plug-in electric and other alternative fuel vehicles, high-efficiency advanced combustion engines, and the replacement of oil with clean domestic transportation fuels. The renewable energy portfolio, which consists of the solar, wind, water, and geothermal programs, aims to develop innovative technologies to make renewable electricity generation cost competitive with traditional sources of energy. The energy efficiency portfolio, which consists of the advanced manufacturing, buildings, and federal energy assistance programs, seeks cost-effective solutions to reduce energy consumption in plants, buildings, and homes.

The Committee encourages EERE to offer technical and other programmatic assistance to the Commonwealth of Puerto Rico to support investment in innovative technologies to effectively reduce power system emissions, efficiently treat wastewater, produce biofuels, and generate power from solid waste. In addition, the Committee also encourages EERE to assist Puerto Rico in assessing the viability and implementation of a subsea electric cable interconnection and the use of micro grids in order to reduce electricity rates.

The Committee recognizes the importance of the Department's work on the Energy-Water Nexus and as part of that effort, the Committee encourages the Department to enter into an interdepartmental agreement with the Department of Agriculture for research that explores how to integrate ongoing research projects at

the various national laboratories and the Agricultural Research Service to develop effective, deployable, energy- and water-efficient food production platforms, beginning in food-insecure communities across the country. By working together, DOE and the Department of Agriculture can bring respective strengths and resources to designing the most desirable low-cost and efficient production system.

Zero Emissions Energy Credit.—The Committee notes that in the fiscal year 2018 Act the Department was directed to produce a report to evaluate the effects of a Zero Emissions Energy Credit. The Committee expects a timely delivery of the report.

Energy Star.—The Committee supports the Department's ongoing role in the Energy Star program and its current structure. In November 2017, the Environmental Protection Agency (EPA) requested feedback from Energy Star program stakeholders about how to improve the program by developing updated standard operating procedures (SOPs). The Department is directed to support the EPA's efforts to reexamine Energy Star guidelines and SOPs to ensure transparency, predictability, and consistency for all stakeholders.

SUSTAINABLE TRANSPORTATION

The Vehicle, Bioenergy, and Hydrogen and Fuel Cell Technologies programs fund activities that can reduce American exposure to future high oil prices. Research into cutting-edge technologies that will increase the fuel economy of gasoline and diesel fuel vehicles—the vast majority of today's fleet will allow Americans to spend less on fuel while traveling the same distance. Research into next-generation automotive and fuel cell technologies that power vehicles with domestic energy sources such as natural gas, electricity, biofuels, and hydrogen can likewise dramatically lower the impact of future high gas prices on Americans.

Vehicle Technologies.—Within available funds, the recommendation includes $130,000,000 for Batteries and Electric Drive Technology, of which $7,000,000 is to enable extreme fast charging and advanced battery analytics; $25,000,000 for Energy Efficient Mobility Systems; $25,000,000 for Materials Technology; $2,500,000 for Advanced Vehicle Competitions; and $20,000,000 to continue the SuperTruck II program to further improve the efficiency of heavy-duty class 8 long- and regional-haul vehicles. The Committee also supports research and development to lower the cost of batteries for electric vehicles through cobalt-free materials and roll-to-roll manufacturing.

The Committee directs the Department to continue to support the Clean Cities program, including providing competitive grants to support alternative fuel, infrastructure, and vehicle deployment activities. Within available funds, the recommendation provides $34,000,000 for Deployment through the Clean Cities Program. When issuing competitive grants in support of these activities, the Department is encouraged to focus on awards that range from $500,000 to $1,000,000 each and include at least one Clean Cities coalition partner. The Committee encourages the Department to ensure balance in the award of funds to achieve varied aims in fostering broader adoption of clean vehicles and installation of supporting infrastructure.

Within available funds, the recommendation includes up to $15,000,000 for medium- and heavy-duty on-road natural gas engine research and development, including energy efficiency improvements, emission after-treatment technologies, fuel system enhancements, and new engine development. The recommendation also includes, within available funds, up to $10,000,000 to continue to support improving the energy efficiency of commercial off-road vehicles, including fluid power systems.

The Committee is aware of the efforts to develop hyperloop transportation systems around the country, which have the potential to increase the energy efficiency of our nation's transportation system. The Committee directs the Department to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of this Act a report that models the demands on the electric grid and the overall energy consumption of the transportation sector of varying levels of network penetration of an interconnected hyperloop system. The report should include information about how these systems could be integrated into the electric grid and identify any technological constraints of the grid that must be addressed to allow the broad adoption of hyperloop technologies.

Bioenergy Technologies.—Within available funds, $27,000,000 is for feedstock supply and logistics, of which $14,000,000 is for the national lab consortium and $5,000,000 is for upgrades at the Biomass Feedstock National User Facility to extend its capabilities and maximize benefits. The recommendation provides $32,000,000 for algal biofuels, of which $2,000,000 is for further research and development activities to support carbon capture from the atmosphere (ambient air) using algae-to-energy technologies.

Within available funds for Conversion Technologies, the recommendation provides $20,000,000 to continue the Agile Biology Foundry and $5,000,000 to improve the efficiency of community and smaller digesters that accept both farm and food wastes.

The Committee is appreciative ofμresearch the Bioenergy Technologies Office has supported regarding wet and gaseous waste streams in waste-to-energy projects. The Committee is interested in understanding how further research and development activities can support baseload power generation using municipal solid waste-to-energy technologies. The Department is reminded that the fiscal year 2018 Act required, not later than 180 days after the enactment of that Act, a report on research and development activities that can improve the economic viability of municipal solid waste-to-energy facilities.

Hydrogen and Fuel Cell Technologies.—Within available funds, $2,000,000 is for the EERE share of the integrated hybrid energy systems work with the Office of Nuclear Energy and $7,000,000 is to enable integrated energy systems using high and low temperature electrolyzers with the intent of advancing the H2@Scale concept.

The Committee recognizes the progress of the program and continues support for stationary, vehicle, motive, and portable power applications of this technology. The Department is encouraged to explore technologies that advance novel onboard hydrogen tank systems and trailer delivery systems, and that reduce the cost and improve the performance of hydrogen generation and storage sys-

tems. The Department is encouraged to work with the Department of Transportation on coordinating supporting hydrogen fueling infrastructure.

The Committee recognizes the need to support the development of alternative fueling infrastructure for U.S. consumers. Accordingly, the Department is encouraged to collaborate with the National Institute of Standards and Technology to allow accurate measurement of hydrogen at fueling stations.

RENEWABLE ENERGY

The Solar Energy, Wind Energy, Water Power, and Geothermal Technologies programs fund applied research, development, and demonstration to reduce the cost of renewable energy to economically competitive levels. Research into innovative technologies, such as photovoltaic and concentrating solar technologies, offshore wind, hydropower, and ground heat, can expand energy production from our domestic resources and reduce our dependence on foreign oil.

Solar Energy.—The Committee encourages the Department to research high efficiency thin-film photovoltaics and processes for high-speed, low-cost processing to produce stable materials on flexible substrates that can be used in residential and commercial power and be integrated into buildings, vehicles, and food production. Research programs are encouraged to include cooperation between industry and academia and to include advanced optical characterization that enables development of strong correlations between materials, cell optical properties, and the photovoltaic power performance of the working solar cells. The Committee also encourages the Department to find ways to expand access to solar energy to residences and businesses in low-income communities.

The Committee encourages the Department to prioritize research that seeks to improve photovoltaic cell technologies, overcome grid integration challenges, and reduce the costs of solar adoption.

Wind Energy.—Within available funds, the recommendation provides up to $5,000,000 for LCOE reduction, domestic manufacturing, and lowering market barriers for distributed wind systems, including small wind for rural homes and farms. The recommendation provides $1,000,000 for the Wind for Schools program.

The Committee supports wind energy research, development, and testing activities at the Department and recommends not less than $7,000,000 for these activities. The Department is encouraged to allocate this funding to perform experimental testing, including aeroacoustics, and any required equipment and instrumentation, to validate high-fidelity wind plant models, and to develop wind plant controls in support of the Department's Atmosphere to Electrons (A2e) initiative. The Department is encouraged to leverage existing partnerships and expand research collaboration with industry, national laboratories, and academia, especially in the areas of hybrid wind system control and optimization, wind turbine capability enhancement to increase grid reliability and resilience, and R&D activities, including cyber security, under the guidance of the Grid Modernization Initiative.

The Committee continues to support wind activities with large generation potential. As such, the Committee urges the Department to prioritize offshore wind technologies that address the unique opportunities and issues across the nation's waterways,

such as high winds, icing, and deep water. In addition, the Committee encourages the Department to continue its work in advancing innovative technologies for offshore wind development, including freshwater, deepwater, shallow water, and transitional depth installations.

The Committee supports the efforts by the Department to establish an offshore wind research and development consortium.

Water Power.—Within available funds, the recommendation provides $59,000,000 for marine and hydrokinetic technology research, development, and deployment activities, including research into mitigation of marine ecosystem impacts of these technologies. The Committee directs the Department to continue development of the open-water wave energy test facility with previously provided funds. The Committee directs the Department to continue competitive solicitations to increase energy capture, reliability, and survivability at lower costs for a balanced portfolio of wave and current (ocean, river, tidal) energy conversion systems and components. The Committee expects the Department to continue to support collaborations between the previously designated Marine Renewable Energy Centers and the national laboratories, including personnel exchanges, to support research, development, and deployment of marine energy components and systems. In addition, the Department is directed to continue its coordination with the U.S. Navy on marine energy technology development for national security applications at the Wave Energy Test Site and other locations.

The recommendation provides $26,000,000 for conventional hydropower, of which $6,600,000 is for the purposes of section 242 of the Energy Policy Act of 2005. Within available funds for hydropower, $10,000,000 is recommended for a competitive funding opportunity for industry-led research, development and deployment of cross-cutting energy converter technologies for run-of-river and tailrace applications to better utilize underdeveloped low-head and other hydropower resources.

ENERGY EFFICIENCY

The Advanced Manufacturing, Building Technologies, Federal Energy Management, and Weatherization and Intergovernmental programs advance cost-effective solutions to reduce energy consumption through increased efficiency. Research into cutting-edge technologies that enhance manufacturing processes; develop advanced materials; and reduce energy use in buildings, homes, and factories can serve the national interest by greatly reducing our energy needs, while also giving American manufacturers an advantage to compete in the global marketplace.

The Committee encourages the Department to plan a workshop to explore ways to improve the adoption rate of energy efficient technologies.

Advanced Manufacturing.—Within available funds, the recommendation provides $80,000,000 for Advanced Manufacturing Research and Development Projects; not less than $4,205,000 for improvements in the steel industry; $20,000,000 for process informed science, design, and engineering of materials and devices operating in harsh environments; $5,000,000 for research into the materials and manufacturing process development of high-strength, light-weight nano-crystalline metal alloys; and $5,000,000 for proc-

ess-informed catalyst science to direct chemical reactions in full-scale industrial manufacturing processes and to develop new industrial product applications.

The recommendation provides $56,000,000 for four Clean Energy Manufacturing Innovation (CEMI) Institutes, $25,000,000 for the Critical Materials Institute, and $20,000,000 for the Manufacturing Demonstration Facility (MDF) and the Carbon Fiber Test Facility. Within available funds for the MDF, up to $5,000,000 is for the development of additive systems and automation technologies that have the potential to deposit multiple materials allowing for hybrid material solutions. In addition, the Committee supports the Department's ongoing efforts to work on bio-based composites, bio-derived materials, and nano/microcellulose research. The Committee supports the budget request for Research and Development Consortia to conduct early-stage research and development in high priority areas and also supports early-stage research in materials, process knowledge, and applications of modeling and simulation relevant to energy in manufacturing. The recommendation provides no funding for the Energy-Water Desalination Hub.

The Committee notes that drying processes consume approximately 10 percent of the process energy used in the manufacturing sector. The recommendation provides up to $10,000,000 to support research and development efforts to improve the efficiency of drying processes.

Building Technologies.—The Committee encourages the Department to continue work on transactive controls for the integration of buildings, the grid, and renewable energy assets, including photovoltaics, and encourages the continuation of this work. Within available funds, the recommendation includes up to $25,000,000 for transactive controls research and development, of which $5,000,000 is to continue promoting regional demonstrations of new, utility-led residential connected communities for advancing smart grid systems; $28,000,000 for Commercial Buildings Integration; $23,000,000 for Residential Buildings Integration; and $25,000,000 for solid state lighting. If the Secretary finds solid-state lighting technology eligible for the twenty-first century lamp prize, specified under section 655 of the Energy Independence and Security Act of 2007, $5,000,000 is provided in addition to funds recommended for lighting research and development.

Within the Residential Buildings Integration program, the Committee encourages the Department to support industry teams to facilitate research, demonstrate and test new systems, and facilitate widespread deployment through direct engagement with builders, the construction trades, equipment manufacturers, smart grid technology and systems suppliers, integrators, and State and local governments.

The Committee appreciates the Department's work in the area of mass composite timber technology and high performance building insulation and sensor technologies.

The Committee notes that natural gas plays an important role in meeting the energy needs of U.S. homes and commercial buildings. The Committee encourages the Department to explore research and development that can advance future natural gas systems and appliances to meet consumer demand for high efficiency and environmentally friendly products.

The Committee recommends up to $20,000,000 for research, development, and market transformation programs on energy efficiency efforts related to the direct use of natural gas in residential applications, including gas heat pump heating and water heating, on-site combined heat and power, and natural gas appliance venting.

The Committee urges the Department to recognize the benefits of authorizing homebuilders through State energy codes to access on-site renewable generation prior to exhausting more expensive energy efficiency measures.

Weatherization and Intergovernmental Programs.—The Committee directs the Department to prioritize a timely distribution of Weatherization Assistance Program funds. The Committee recognizes that many individuals who would otherwise be eligible for the Weatherization Assistance Program have homes with structural deficiencies which preclude them from participating. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress a briefing on the kinds of information that is collected from grantees and the potential for collecting additional information that discusses the kinds of structural deficiencies that make homes ineligible for the program.

CORPORATE SUPPORT

The Program Direction, Strategic Programs, and Facilities and Infrastructure budgets provide the necessary resources for program and project management across all of EERE's technology programs, for the adoption of technologies to market, and for the operation and upkeep of the National Renewable Energy Laboratory.

Strategic Programs.—The Department is encouraged to work with 2-year, public community and technical colleges on job training programs that lead to an industry-recognized credential in the energy workforce.

CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE

Appropriation, 2018	$– – –
Budget estimate, 2019	95,800,000
Recommended, 2019	146,000,000
Comparison:	
Appropriation, 2018	+146,000,000
Budget estimate, 2019	+50,200,000

The Cybersecurity, Energy Security, and Emergency Response program leads the Department's efforts to secure the nation's energy infrastructure against all hazards, reduce the risks of and impacts from cyber events, and assist with restoration activities. A reliable and resilient power grid is critical to the nation's economic competitiveness and leadership.

After adjusting for the account structure changes proposed in the President's request, the recommendation is $49,971,000 above the fiscal year 2018 enacted level for these activities.

The Committee places a high priority on ensuring the protection of the grid against cyberattacks and extreme weather events. The Committee appreciates the Department's enhanced focus on these activities. Many different actors, governmental and private, play a role in preventing and responding to threats to the nation's energy infrastructure. The Committee expects the Department to continue

coordinating its efforts with all stakeholders to ensure the highest priority areas are being addressed effectively in its ongoing efforts to protect the grid.

Within available funds for Cybersecurity for Energy Delivery Systems, $10,000,000 is for research and development on concepts to simplify and isolate automated systems and remove vulnerabilities that could allow unauthorized access to the grid through digital software systems.

ELECTRICITY DELIVERY

Appropriation, 2018	$– – –
Budget estimate, 2019	61,309,000
Recommended, 2019	175,000,000
Comparison:	
Appropriation, 2018	+175,000,000
Budget estimate, 2019	+113,691,000

The Electricity Delivery program advances technologies and provides operational support to increase the efficiency and technological advancement of the nation's electricity delivery system. The power grid employs aging technologies at a time when power demands and the deployment of new intermittent technologies are imposing new stresses on the system. The Electricity Delivery program aims to develop a modern power grid by advancing resilient power distribution systems, intelligent and high-efficiency grid components, and energy storage systems.

After adjusting for the account structure changes proposed in the President's request, the recommendation is $22,700,000 above the fiscal year 2018 enacted level for these activities.

Within available funds for Resilient Distribution Systems, $7,000,000 is provided for university-based research and development of sensing, intelligent machines in the Internet of Things and their integration into the utility grid. The Committee supports investments to bring together the national laboratories' micro grid capabilities to provide the most advanced set of micro grid research, development, and experimentation capabilities for developing grid solutions from fundamental research to evaluation, design, and decision support.

The Committee supports energy storage projects that fully assess and demonstrate a portfolio of energy storage systems at grid relevant scales and maximize the value stream of these technologies to deliver tangible benefits across the operations, energy delivery, environmental, and financial sectors of the utility industry.

Within available funds for Energy Storage, the Department is encouraged to launch a new initiative aimed at aggressively driving down costs and improving the performance of a diverse set of grid-scale storage technologies. The program will build off the Department's prior research and development efforts in storage; include a suite of technologies capable of providing storage-like functions; and focus R&D efforts on technical, regulatory, and market issues necessary to achieve both existing grid-scale storage cost and performance targets, as well as targets for increased grid reliability, resiliency, or others as appropriate. The Electricity Delivery program is urged to coordinate its efforts with the Office of Science and EERE to ensure this new initiative best leverages the storage work being conducted within the Basic Energy Sciences program of

the Office of Science and programs within EERE where appropriate. Low cost grid-scale energy storage technologies are critical to improving grid resiliency, reliability, security, and the successful integration of a broad range of generation sources.

The Committee notes the potential benefits that high power, high capacity batteries can provide for increased energy resilience in the face of adverse events and increasing deployments of intermittent technologies. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of this Act a report on the potential use of next generation, high capacity and high power batteries in our energy system.

The Department is directed to continue the ongoing work between the national laboratories, industry, and universities to improve grid reliability and resiliency through the strategic goals of the Grid Modernization Initiative. The Committee encourages the Department to include all applied energy programs to ensure broad energy system resilience and modernization. In addition, the Committee supports the strategic goals of the Grid Modernization Laboratory Consortium and supports continued implementation of the Grid Multi-year Program Plan. The plan should include an emphasis on national grid resilience modeling and improved grid cyber resilience.

The Committee is supportive of establishing a shared platform for understanding the interconnectedness of the North American grid, but lacks details on cost estimates for these efforts. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act a report describing the activities and costs necessary to achieve a North American grid model. Within available funds the Department may build upon existing tools and modeling work done at the Department to explore a shared modeling platform across the national laboratories.

The Committee supports the Department's involvement in the grid restoration effort in Puerto Rico and encourages the Department to continue to provide technical assistance as Puerto Rico works to rebuild its energy infrastructure. In addition, the Electricity Delivery program is encouraged to collaborate with EERE to offer assistance in assessing the viability and implementation of a subsea electric cable interconnection and the use of micro grids in order to reduce electricity rates.

NUCLEAR ENERGY

Appropriation, 2018	$1,205,056,000
Budget estimate, 2019	757,090,000
Recommended, 2019	1,346,090,000
Comparison:	
Appropriation, 2018	+141,034,000
Budget estimate, 2019	+589,000,000

Nuclear power generates approximately one-fifth of the nation's electricity and will continue to be an important base-load energy source in the future. The Department of Energy's Nuclear Energy (NE) program invests in research, development, and demonstration activities that develop the next generation of clean and safe reactors, further improve the safety of our current reactor fleet, and

contribute to the nation's long-term leadership in the global nuclear power industry.

NUCLEAR ENERGY RESEARCH AND DEVELOPMENT

Nuclear Energy Enabling Technologies.—Within available funds, $50,000,000 is for Crosscutting Technology Development, of which $10,000,000 is for work on advanced sensors and instrumentation and $10,000,000 is for hybrid energy systems; $50,000,000 is for the Nuclear Science User Facilities, of which $10,000,000 is for nuclear energy computation system and support; $40,000,000 is for Nuclear Energy Advanced Modeling and Simulation, of which $6,000,000 is for MW-scale reactor modeling and simulation; and $24,300,000 is for the Energy Innovation Hub. The Department is directed to continue to treat the Energy Innovation Hub and the Nuclear Energy Advanced Modeling and Simulation programs as separate funding activities.

Integrated University Program.—The Committee recommends $5,000,000 to continue the Integrated University Program, which is critical to ensuring the nation's nuclear science and engineering workforce in future years.

Reactor Concepts Research, Development, and Demonstration.—Within available funds, $100,000,000 is for Advanced Small Modular Reactor Research and Development to support technical, first-of-its-kind engineering and design and regulatory development of next generation light water and non-light water small modular reactors, including $10,000,000 for seismic analysis; $155,000,000 is for Advanced Reactor Technologies, of which $34,000,000 is for fuel and graphite qualification, $22,000,000 is to complete the federal share of the two performance-based advanced reactor concepts, and $20,000,000 is for MW-scale reactor research and development; and $65,000,000 is for research and development to support efforts to develop a versatile fast test reactor. In support of the current fleet of reactors as they continue to ensure safe and reliable operations, the Committee includes $50,000,000 for the Light Water Reactor Sustainability program.

The Department is encouraged to build upon the success of the advanced reactor concepts program and explore ways to support research and development that would enable non-light water reactor demonstrations by the mid to late 2020s.

The Department shall continue to work with the National Aeronautics and Space Administration (NASA) to ensure an adequate supply of plutonium-238 is available for future NASA space exploration missions.

Fuel Cycle Research and Development.—Within available funds, the recommendation provides $128,559,000 for the Advanced Fuels Program, of which not less than $55,600,000 is to continue the participation of three industry-led teams of the cost shared research and development program on Accident Tolerant Fuels; not less than $20,000,000 is to support accident tolerant fuels development at the national laboratories and other facilities, including at the Advanced Test Reactor, the Transient Reactor Test Facility, and the Halden reactor; $3,000,000 is to continue research on ceramic cladding; and $15,000,000 is for additional support of capability development of transient testing, including test design, modeling, and simulation. The Committee notes that continued operation of the

Advanced Test Reactor, the Transient Reactor Test Facility, and the Halden Reactor are critical to the success of the Accident Tolerant Fuels program and should be preserved. Within available funds, the recommendation provides $50,000,000 for Material Recovery and Waste Form Development, of which $7,000,000 is for joint fuel cycle studies and up to $20,000,000 is for highly enriched uranium recovery preparation and testing to support needs for high assay low enriched uranium.

The recommendation provides $62,500,000 to continue generic Used Nuclear Fuel Disposition research and development activities. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress a report on how electromagnetic technologies can be used to remediate nuclear waste. The report shall evaluate the scientific basis for these technologies, the effects on nuclear waste and storage in the United States, the benefit to the nuclear power industry, and the implications for national security. The Committee is aware of the Department's ongoing research and development efforts regarding the safe transportation of spent nuclear fuel and encourages the Department to continue this important work to ensure that this fuel can be safely moved at the earliest opportunity.

IDAHO FACILITIES MANAGEMENT

INL Operations and Infrastructure.—Within available funds, the recommendation includes $300,000,000 for INL Operations and Infrastructure to support the MFC and ATR Five-Year Plan to increase reliability and sustainability.

IDAHO SITEWIDE SAFEGUARDS AND SECURITY

Idaho Sitewide Safeguards and Security.—Within available funds, the recommendation includes $10,000,000 to construct a protective forces building at the ATR complex that will meet the needs for expanded protective force and security operations under the Department's new Design Basis Threat but that will not exceed a total project cost of $10,000,000.

FOSSIL ENERGY RESEARCH AND DEVELOPMENT

Appropriation, 2018	$726,817,000
Budget estimate, 2019	502,070,000
Recommended, 2019	785,000,000
Comparison:	
Appropriation, 2018	+58,183,000
Budget estimate, 2019	+282,930,000

Fossil energy resources, such as coal, oil, and natural gas, generate approximately 63 percent of the nation's electricity and will continue to provide for the majority of our needs for the foreseeable future. The Fossil Energy Research and Development program funds research, development, and demonstration activities to improve existing technologies and to develop next-generation systems in the full spectrum of fossil energy areas. At a time when fossil fuel power generation is expanding around the globe, the activities funded within this program advance our nation's position as a leader in fossil energy technologies and ensure that we use the full extent of our domestic resources safely and efficiently.

COAL—CCS AND POWER SYSTEMS

The Department is directed to use funds from Coal CCS and Power Systems for both coal and natural gas research and development as it determines to be merited, as long as such research does not occur at the expense of coal research and development.

The recommendation provides $25,000,000 to continue to support the solicitation for two large-scale pilots that focus on transformational coal technologies that represent a new way to convert energy to enable a step change in performance, efficiency, and the cost of electricity compared to today's technologies. Such technologies include thermodynamic improvements in energy conversion and heat transfer, such as pressurized oxygen combustion and chemical looping, and improvements in carbon capture systems technology. In making the awards for large-scale pilots, the Department should prioritize entities that have previously received funding for these technologies at the lab and bench scale.

Within available funds for Coal CCS and Power Systems, the Committee supports new solicitations for Front-End Engineering and Design studies on projects that generate emissions suitable for utilization or storage. In addition, the Committee recommends research and development, as well as pilot scale activities, that will improve the performance, reliability, and efficiency of both new and existing fossil fuel fired power plants.

Consistent with direction provided in fiscal year 2018, the Committee does not support the closure of any National Energy Technology Laboratory (NETL) site and provides no funds to plan, develop, implement, or pursue the consolidation or closure of any of the NETL sites.

The Committee supports the integrated carbon and energy management activities of NE and EERE and provides $2,000,000 for Hybrid Carbon Conversion activities within Fossil Energy.

Carbon Capture.—The Department is directed to explore carrying out a prize competition to advance the research, development, or commercialization of technologies that capture, sequester, or utilize carbon from coal. The Committee encourages the Department to focus its efforts on improving the efficiency and decreasing the costs of carbon capture technologies, demonstrating carbon capture technologies, and identifying how these technologies can be integrated with business models and operations. This focus includes small- and large-scale pilot testing of technologies moving through the program pipeline and retrofit activities on the existing fleet.

Carbon Storage.—The Committee supports the past work of the Regional Carbon Sequestration Partnerships (RCSPs) in advancing future technologies for enhanced oil recovery, mineral resource extraction, and gaining deep subsurface knowledge through continued research. The Committee believes the Department should undertake measures to preserve, share, and advance the state of knowledge gained through these programs, which will provide the necessary information to strengthen platforms for industry adoption. Within available funds for Storage Infrastructure, the Committee provides up to $30,000,000 to support the CarbonSAFE initiative in which the RCSPs are eligible to participate. The Department is encouraged to continue activities that promote the use and reuse of captured carbon from both the power and industrial sectors. In

addition, the Committee encourages the Department to support non-geologic utilization activities within the Carbon Use and Reuse program, including biological utilization by algae and other microorganisms.

Advanced Energy Systems.—Within available funds, $30,000,000 is for Solid Oxide Fuel Cells to focus on hydrogen production and storage as well as research and development to enable efficient, cost-effective electricity generation with minimal use of water and the use of abundant domestic coal and natural gas resources with near-zero atmospheric emissions of CO2 and pollutants. Moreover, central power generation applications of solid oxide fuel cells can be integrated with carbon capture and storage efforts to contribute to a secure energy future. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of this Act a report on the status of the Solid Oxide Fuel Cell Program. The report shall include a discussion of the technological achievements of the program, including lessons learned, and a discussion of the technical requirements to achieve the remaining goals of the program.

The Committee urges the Department to fund research and development activities to improve the efficiency of gas turbines used in power generation systems, working cooperatively with industry, universities, and other appropriate parties. The Committee recognizes the abundance of domestic coal and its potential to be a significant primary energy source for the production of liquid fuels. Within available funds, the Department is directed to support research and development that focuses on expanding the Department's external agency activities to develop and test advanced concept coal to liquid fuels technologies. Within available funds, $37,000,000 is for transformative power generation to improve the efficiency, reliability, and flexible operations of both new and existing plants. The Department is directed to focus on advanced coal technologies that are applicable to retrofit technologies and modular coal technologies that are capable of distributed generation, represent maximum efficiency improvements over the current average fleet, incorporate advanced emissions control systems, and are economically competitive.

Crosscutting Research.—Within available funds, the recommendation provides up to $2,500,000 to research low-temperature microwave plasma technology that converts domestic coal into high-performance carbon materials, and $20,000,000 for the Advanced Ultrasupercritical Program to fabricate, qualify, and develop domestic suppliers capable of producing components from high temperature materials.

NETL Coal Research and Development.—The recommendation includes $20,000,000 for the Department to continue its ongoing external agency activities to develop and test advanced separation technologies and accelerate the advancement of commercially viable technologies for the recovery of rare earth elements and minerals from U.S. coal and coal byproduct sources. The Committee expects research to support pilot-scale and experimental activities for near-term application.

Supercritical Transformational Electric Power (STEP) Generation.—Within available funds, the recommendation provides $16,700,000, consistent with the original scope of work, to fully

fund the Department's cost share portion to design, construct, and operate a 10-MW pilot. The recommendation provides an additional $5,730,000 for competitively-awarded research and development activities, coordinated with EERE and NE, to advance the use of supercritical power cycles.

NATURAL GAS TECHNOLOGIES

Research.—Within available funds, the recommendation provides $9,000,000 for Environmentally Prudent Development and $5,200,000 for the Risk Based Data Management System. The Department is encouraged to explore technologies that curtail methane gas emissions from flaring and venting in shale formations.

UNCONVENTIONAL FOSSIL ENERGY TECHNOLOGIES

The Committee supports the Department's continued investment into research and development on unconventional fossil energy technologies. These investments will help the United States maximize the benefits of its abundant unconventional natural gas liquids production.

The Committee recognizes the Department's ongoing efforts to support research into the exploration for and development of emerging unconventional oil and gas reservoirs. The Committee encourages continued efforts to characterize emerging unconventional reservoirs and to emphasize geographic areas where geological conditions are optimal for the generation and accumulation of economically significant amounts of oil or gas in the geological formations being studied. The Committee further encourages a focus of available resources on potential unconventional reservoirs for which there exist limited amounts of data rather than well-known existing reservoirs.

The Committee provides $15,000,000 for Unconventional Field Test Sites.

The Committee is pleased with the Department's progress to date on studying the volatility of crude oil from the Bakken Shale in North Dakota and accurately assessing and characterizing volatility before transporting. The Committee directs the Department to continue this research in partnership with the Department of Transportation to improve the safety of crude oil transported by rail in this country.

NETL INFRASTRUCTURE

Within available funds, the recommendation provides $5,500,000 for NETL's Supercomputer, Joule.

NAVAL PETROLEUM AND OIL SHALE RESERVES

Appropriation, 2018	$4,900,000
Budget estimate, 2019	10,000,000
Recommended, 2019	10,000,000
Comparison:	
Appropriation, 2018	+5,100,000
Budget estimate, 2019	– – –

The Naval Petroleum and Oil Shale Reserves no longer serve the national defense purpose envisioned in the early 1900's, and consequently the National Defense Authorization Act for fiscal year 1996 required the sale of the Government's interest in the Naval

Petroleum Reserve 1 (NPR–1). To comply with this requirement, the Elk Hills field in California was sold to Occidental Petroleum Corporation in 1998. Following the sale of Elk Hills, the transfer of the oil shale reserves, and transfer of administrative jurisdiction and environmental remediation of the Naval Petroleum Reserve 2 (NPR–2) to the Department of the Interior, the Department retained one Naval Petroleum Reserve property, the Naval Petroleum Reserve 3 (NPR–3) in Wyoming (Teapot Dome field). The Department issued a disposition plan for NPR–3 in June 2013 and began implementation of the plan in fiscal year 2014. Transfer of NPR–3 to a new owner occurred in fiscal year 2015.

STRATEGIC PETROLEUM RESERVE

Appropriation, 2018	$252,000,000
Budget estimate, 2019	175,105,000
Recommended, 2019	252,000,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	+76,895,000

The mission of the Strategic Petroleum Reserve is to store petroleum to reduce the adverse economic impact of a major petroleum supply interruption to the U.S. and to carry out obligations under the international energy program.

The recommendation includes funding to address facilities development and operations, including physical security and cavern integrity, and to maintain 1,000,000 barrels of gasoline blendstock in the Northeast Gasoline Supply Reserve. The recommendation includes legislative language to direct the Secretary to draw down and sell crude oil from the Strategic Petroleum Reserve, with proceeds to be deposited into the Energy Security and Infrastructure Modernization Fund for use in carrying out the Life Extension II project. This drawdown and use of proceeds is in accordance with section 404 of the Bipartisan Budget Act of 2015.

SPR PETROLEUM ACCOUNT

Appropriation, 2018	$8,400,000
Budget estimate, 2019	– – –
Recommended, 2019	10,000,000
Comparison:	
Appropriation, 2018	+1,600,000
Budget estimate, 2019	+10,000,000

The SPR Petroleum Account funds Strategic Petroleum Reserve acquisition, transportation, and drawdown activities. The fiscal year 2019 budget request proposes to draw down and sell one million barrels of SPR crude oil to fund the costs of drawdown operations related to statutorily-directed sales. Instead, the recommendation provides discretionary appropriations for this purpose.

NORTHEAST HOME HEATING OIL RESERVE

Appropriation, 2018	$6,500,000
Budget estimate, 2019	10,000,000
Recommended, 2019	10,000,000
Comparison:	
Appropriation, 2018	+3,500,000
Budget estimate, 2019	– – –

The acquisition and storage of heating oil for the Northeast began in August 2000 when the Department of Energy, through the Strategic Petroleum Reserve account, awarded contracts for the lease of commercial storage facilities and acquisition of heating oil. The purpose of the reserve is to assure home heating oil supplies for the Northeastern States during times of very low inventories and significant threats to the immediate supply of heating oil. The Northeast Home Heating Oil Reserve was established as a separate entity from the Strategic Petroleum Reserve on March 6, 2001.

ENERGY INFORMATION ADMINISTRATION

Appropriation, 2018	$125,000,000
Budget estimate, 2019	115,035,000
Recommended, 2019	125,000,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	+9,965,000

The Energy Information Administration is a quasi-independent agency within the Department of Energy established to provide timely, objective, and accurate energy-related information to the Congress, the executive branch, state governments, industry, and the public.

The Committee encourages the Department to continue important data collection, analysis, and reporting activities on energy use and consumption, including the Commercial Buildings Energy Consumption Survey, and the Residential Buildings Energy Consumption Survey.

The Committee notes that while the Energy Information Administration website does provide information for Puerto Rico and the other territories in its State Profiles section, the information furnished for Puerto Rico is not as detailed nor as up-to-date as the information furnished for states. The Committee encourages the Energy Information Administration to work to close these remaining data gaps.

NON-DEFENSE ENVIRONMENTAL CLEANUP

Appropriation, 2018	$298,400,000
Budget estimate, 2019	218,400,000
Recommended, 2019	240,000,000
Comparison:	
Appropriation, 2018	−58,400,000
Budget estimate, 2019	+21,600,000

Non-Defense Environmental Cleanup includes funds to manage and remediate sites used for civilian, energy research, and non-defense related activities. These past activities resulted in radioactive, hazardous, and mixed waste contamination that requires remediation, stabilization, or some other action.

URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND

Appropriation, 2018	$840,000,000
Budget estimate, 2019	752,749,000
Recommended, 2019	870,000,000
Comparison:	
Appropriation, 2018	+30,000,000
Budget estimate, 2019	+117,251,000

The Uranium Enrichment Decontamination and Decommissioning Fund was established by the Energy Policy Act of 1992 to fund the cleanup of gaseous diffusion plants at Portsmouth, Ohio; Paducah, Kentucky; and the East Tennessee Technology Park in Oak Ridge, Tennessee.

Portsmouth.—The recommendation includes funding above the budget request to fully offset the amount of proceeds that the Department planned to generate through bartering arrangements in order to fund additional cleanup in fiscal year 2019. After the date of enactment of this Act, the Department shall not barter, transfer, or sell uranium for the remainder of fiscal year 2019 in order to generate additional funding for Portsmouth cleanup that is in excess of the amount of funding provided in this Act.

Title X Uranium/Thorium Reimbursements.—The Committee recommends $32,959,000 to reimburse private licensees for the cost of cleaning up uranium and thorium processing sites in accordance with Title X of the Energy Policy Act of 1992. The Committee expects the Department to reimburse licensees for all previous expenses, including costs related to remediation, restoration, and oversight of these programs, and to ensure all impacted communities are made whole. Fulfilling the obligation to fully reimburse licensees is important to the health and safety of the impacted communities. The Committee expects the Department to provide sufficient resources within future budget requests to reimburse licensees for approved claim balances in a timely manner and to avoid accumulating balances and liabilities.

SCIENCE

Appropriation, 2018	$6,259,903,000
Budget estimate, 2019	5,390,972,000
Recommended, 2019	6,600,000,000
Comparison:	
Appropriation, 2018	+340,097,000
Budget estimate, 2019	+1,209,028,000

The Office of Science funds basic science research across national laboratories, universities, and other research institutions in support of American innovation and the Department's energy-focused missions. Through research in physics, biology, chemistry, and other science disciplines, these activities expand scientific understanding and secure the nation's leadership in energy innovation. The Office of Science is the nation's largest supporter of basic research in the physical sciences.

The Science program office includes Advanced Scientific Computing Research, Basic Energy Sciences, Biological and Environmental Research, Fusion Energy Sciences, High Energy Physics, Nuclear Physics, Workforce Development for Teachers and Scientists, Science Laboratories Infrastructure, Safeguards and Security, and Program Direction. The Committee has placed a high priority on funding these activities in fiscal year 2019, given the private sector is not likely to fund research whose findings either have high non-commercial value or are not likely to be commercialized in the near or medium term. This work is vital to sustaining the scientific leadership of the United States and can provide the underpinnings for valuable intellectual property in the coming decades.

The Committee encourages the Department to evaluate methods to educate new and existing minority and women-owned small businesses about SBIR and STTR grants, and directs the Department to provide to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of this Act a report on current and planned outreach efforts in this area.

The Committee appreciates the Department's focus on quantum information sciences and encourages the Department, in addition to activities referenced in the budget request, to explore research and development on precision sensors.

ADVANCED SCIENTIFIC COMPUTING RESEARCH

The Advanced Scientific Computing Research program develops and hosts some of the world's fastest computing and network capabilities to enable science and energy modeling, simulation, and research.

Exascale Computing Project.—The recommendation includes $225,000,000 for exascale activities.

High Performance Computing and Network Facilities.—In addition to the long-term exascale initiative, the Committee supports continued upgrade and operation of the Leadership Computing Facilities at Argonne and Oak Ridge national laboratories and of the High Performance Production Computing capabilities at Lawrence Berkeley National Laboratory. The recommendation includes $140,000,000 for the Argonne Leadership Computing Facility, $185,000,000 for the Oak Ridge Leadership Computing Facility, and $100,000,000 for the National Energy Research Scientific Computing Center at Lawrence Berkeley National Laboratory. Within available funds, the recommendation includes $10,000,000 for the Computational Science Graduate Fellowship program and $80,000,000 to support necessary infrastructure upgrades and operations for ESnet.

The Committee is concerned that the increased costs of the Exascale Computing Initiative compared to previous high performance computing (HPC) efforts are not transparently presented because the Department's budget request contains inadequate detail on the cost of its HPC procurements. In its fiscal year 2020 budget request, the Department shall submit a budget justification for Advanced Scientific Computing Research that clearly details funding amounts requested for base research and development activities, operations, and procurements for the Exascale Computing Initiative.

The Committee notes the importance of a strong research program in applied and computational mathematics to the Department's mission. The Committee encourages the Department to prioritize research in applied and computational mathematics, supercomputing, and quantum computing to ensure the U.S. remains competitive in this field.

Artificial intelligence technologies that may improve the analysis and interpretation of big data can lead to substantial improvements in the Department's ability to meet its nuclear security, energy, and science missions. The Committee provides $26,000,000 to launch an artificial intelligence and big data initiative.

BASIC ENERGY SCIENCES

The Basic Energy Sciences program funds basic research in materials science, chemistry, geoscience, and bioscience. The science breakthroughs in this program enable a broad array of innovation in energy technologies and other industries critical to American economic competitiveness.

Research.—Within available funds, the recommendation provides $24,088,000 for the Batteries and Energy Storage Innovation Hub; $15,000,000 for the Fuels from Sunlight Innovation Hub; $130,500,000 for facilities operations of the nanoscience research centers; $500,000,000 for facilities operations of the nation's light sources; $280,000,000 for facilities operations of the high flux neutron sources; $20,000,000 for the Experimental Program to Stimulate Competitive Research; $110,000,000 for the Energy Frontier Research Centers; and $10,100,000 for Other Project Costs, of which $6,100,000 is for LCLS–II, $2,000,000 is for ALS–U, and $2,000,000 is for LCLS–II HE.

The Committee supports the continued research and development for the Batteries and Energy Storage Innovation Hub to develop energy storage research prototypes to ensure the outcome of basic research leads to practical solutions that are competitive in the marketplace. The Committee encourages the Hub to focus on grid storage applications, particularly on chemistries with low cost reagents.

The Committee encourages the Department to resume annual, or biennial, Implementation Grant solicitations when making awards in support of the Experimental Program to Stimulate Competitive Research. The Department is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act a report that provides a plan for these future solicitations.

The Committee encourages the Department to continue to provide support for basic research in polymers and polymer-based materials for energy applications and also encourages the Department to implement neutron research efforts for polymeric materials for the materials community. The Committee is aware of the discovery of physical phenomena in the light harvesting systems of photosynthetic organisms that has potential applications in quantum computing. The recommendation provides $10,000,000 for research of artificial light harvesting systems that promise to significantly increase computational processing power and speed.

BIOLOGICAL AND ENVIRONMENTAL RESEARCH

The Biological and Environmental Research (BER) program supports advances in energy technologies and related science through research into complex biological and environmental systems. The Committee directs the Department to give priority to optimizing the operation of BER user facilities and the programs that utilize them.

The recommendation provides $100,000,000 for the Bioenergy Research Centers and $70,000,000 for the Joint Genome Institute.

The Committee recognizes the importance of the emerging field of microbiome research and encourages the Department to explore

establishing a national microbiome database to maintain leadership in the field.

The Committee continues to support the Department's funding for academia to perform studies, including independent evaluations using existing data sets and peer-reviewed publications that include the collection and evaluation of atmospheric data from satellite observations obtained in cooperation with NASA. Satellite observations of the atmosphere, within the context of the Earth as a global system, provide information that is critical in the interpretation of earth-based observations.

The Committee supports the Department's proposal to initiate a terrestrial-aquatic interfaces pilot project and encourages the Department to explore the resiliency of coastal ecosystems as part of this project.

Within available funds, the Department is directed to continue to support NGEE–Arctic, NGEE–Tropics, the SPRUCE field site, the Watershed Function Science Focus Area, and the AmeriFLUX project.

FUSION ENERGY SCIENCES

The Fusion Energy Sciences program supports basic research and experimentation aiming to harness nuclear fusion for energy production.

Research.—The Committee recommends $281,704,000 for burning plasma science foundations, $61,246,000 for burning plasma science long pulse, and $84,050,000 for discovery plasma science. Within available funds, the recommendation provides $18,000,000 for High Energy Density Laboratory Plasmas, $25,000,000 for Scientific Discovery through Advanced Computing, $2,500,000 to provide upgrades to the Safety and Tritium Applied Research facility, and $7,000,000 for the Materials Plasma Exposure Experiment.

Construction.—The Committee recommends $163,000,000 for the U.S. contribution to the ITER project. The Committee continues to believe the ITER project represents an important step forward for energy sciences and has the potential to revolutionize the current understanding of fusion energy.

HIGH ENERGY PHYSICS

The High Energy Physics program supports fundamental research into the elementary constituents of matter and energy and ultimately into the nature of space and time. The program focuses on particle physics theory and experimentation in three areas: the energy frontier, which investigates new particles and fundamental forces through high-energy experimentation; the intensity frontier, which focuses on rare events to better understand our fundamental model of the universe's elementary constituents; and the cosmic frontier, which investigates the nature of the universe and its form of matter and energy on cosmic scales.

Research.—Within available funds, the recommendation provides $22,450,000 to complete the dark energy and dark matter experiments, $105,000,000 for the HL–LHC Upgrade Projects, $31,000,000 for PIP–II, and $10,000,000 to continue the upgrade of FACET II.

The Committee supports the Department's efforts to advance laser-driven accelerators and encourages the Department to explore

how this technology fits within future planning efforts for the High Energy Physics program. In addition, the Committee strongly urges the Department to maintain a balanced portfolio of small, medium, and large scale experiments, and to ensure adequate funding for research performed at universities and the national laboratories.

NUCLEAR PHYSICS

The Nuclear Physics program supports basic research into the fundamental particles that compose nuclear matter, how they interact, and how they combine to form the different types of matter observed in the universe today.

Operations and Maintenance.—Within available funds, the recommendation provides $10,000,000 for the Stable Isotope Production Facility, $6,600,000 for the Gamma-Ray Energy Tracking Array, and $5,660,000 for the Super Pioneering High Energy Nuclear Interaction Experiment. The Committee directs the Department to give priority to optimizing the operations for the Relativistic Heavy Ion Collider, the Continuous Electron Beam Accelerator Facility, the Argonne Tandem Linac Accelerator System, and the Brookhaven Linac Isotope Producer Facility.

NUCLEAR WASTE DISPOSAL

Appropriation, 2018	$– – –
Budget estimate, 2019	90,000,000
Recommended, 2019	190,000,000
Comparison:	
Appropriation, 2018	+190,000,000
Budget estimate, 2019	+100,000,000

The Committee recommendation includes $190,000,000 for Nuclear Waste Disposal to continue the Department of Energy's statutorily required activities for the Yucca Mountain license application. Within available funds, the Department is directed to reestablish its capability to respond to the Nuclear Regulatory Commission during the adjudicatory process and to otherwise fully support the Yucca Mountain licensing process. The recommendation includes support for affected units of local government that have formally consented to host Yucca Mountain.

ADVANCED RESEARCH PROJECTS AGENCY—ENERGY

Appropriation, 2018	$353,314,000
Budget estimate, 2019	– – –
Recommended, 2019	325,000,000
Comparison:	
Appropriation, 2018	– 28,314,000
Budget estimate, 2019	+325,000,000

The Advanced Research Projects Agency-Energy (ARPA–E) supports research aimed at rapidly developing energy technologies whose development and commercialization are too risky to attract sufficient private sector investment but are capable of significantly changing the energy sector to address our critical economic and energy security challenges. Projects funded by ARPA–E include such wide-ranging areas as production processes for transportation fuel alternatives that can reduce our dependence on imported oil, heating and cooling technologies with exceptionally high energy efficiency, and improvements in petroleum refining processes.

The Department is directed to disburse funds appropriated for ARPA–E on eligible projects within a reasonable time period, consistent with past practices.

TITLE 17 INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM

ADMINISTRATIVE EXPENSES

GROSS APPROPRIATION

Appropriation, 2018	$33,000,000
Budget estimate, 2019	10,000,000
Recommended, 2019	32,000,000
Comparison:	
Appropriation, 2018	−1,000,000
Budget estimate, 2019	+22,000,000

OFFSETTING COLLECTIONS

Appropriation, 2018	$−10,000,000
Budget estimate, 2019	−15,000,000
Recommended, 2019	−15,000,000
Comparison:	
Appropriation, 2018	−5,000,000
Budget estimate, 2019	–––

RESCISSION

Appropriation, 2018	$–––
Budget estimate, 2019	−240,000,000
Recommended, 2019	–––
Comparison:	
Appropriation, 2018	–––
Budget estimate, 2019	+240,000,000

NET APPROPRIATION

Appropriation, 2018	$23,000,000
Budget estimate, 2019	−245,000,000
Recommended, 2019	17,000,000
Comparison:.	
Appropriation, 2018	−6,000,000
Budget estimate, 2019	+262,000,000

The funds provided to the Title 17 Innovative Technology Loan Guarantee Program support administrative operations only.

ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PROGRAM

Appropriation, 2018	$5,000,000
Budget estimate, 2019	1,000,000
Recommended, 2019	5,000,000
Comparison:	
Appropriation, 2018	–––
Budget estimate, 2019	+4,000,000

The Energy Independence and Security Act of 2007 established a direct loan program to support the development of advanced technology vehicles and associated components in the United States. The program provides loans to automobile and automobile part manufacturers for the cost of re-equipping, expanding, or establishing manufacturing facilities in the United States to produce advanced technology vehicles or qualified components, and for associated engineering integration costs. The funds provided support administrative operations only.

TRIBAL ENERGY LOAN GUARANTEE PROGRAM

Appropriation, 2018	$1,000,000
Budget estimate, 2019	−8,500,000
Recommended, 2019	1,000,000
Comparison:	
Appropriation, 2018	− − −
Budget estimate, 2019	+9,500,000

The Energy Policy Act of 2005 established a loan guarantee program for energy development to provide or expand electricity on Indian land. The funds provided support administrative operations only.

DEPARTMENTAL ADMINISTRATION

GROSS APPROPRIATION

Appropriation, 2018	$285,652,000
Budget estimate, 2019	235,534,000
Recommended, 2019	280,524,000
Comparison:	
Appropriation, 2018	−5,128,000
Budget estimate, 2019	+44,990,000

REVENUES

Appropriation, 2018	$−96,000,000
Budget estimate, 2019	−96,000,000
Recommended, 2019	−96,000,000
Comparison:	
Appropriation, 2018	− − −
Budget estimate, 2019	− − −

NET APPROPRIATION

Appropriation, 2018	$189,652,000
Budget estimate, 2019	139,534,000
Recommended, 2019	184,524,000
Comparison:	
Appropriation, 2018	−5,128,000
Budget estimate, 2019	+44,990,000

Funding recommended for Departmental Administration provides for general management and program support functions benefiting all elements of the Department of Energy, including the National Nuclear Security Administration. The account funds a wide array of Headquarters activities not directly associated with the execution of specific programs. The recommendation includes six reprogramming control points in this account to provide flexibility in the management of support functions. Other Departmental Administration includes Management, Project Management Oversight and Assessments, Chief Human Capital Officer, Office of Technology Transitions, Office of Small and Disadvantaged Business Utilization, General Counsel, Office of Policy, International Affairs, and Public Affairs. The Department is directed to continue to submit a budget request that proposes a separate funding level for each of these activities. Within International Affairs, the recommendation includes $2,000,000 for the Israel Binational Industrial Research and Development (BIRD) Foundation, which was previously funded in the EERE account, and $4,000,000 for the U.S.–Israel Center of Excellence in Energy, Engineering and Water Technology.

Economic Impact and Diversity.—The recommendation includes $10,169,000 for Economic Impact and Diversity, the same as fiscal year 2018 and $164,000 above the budget request.

Chief Information Officer.—To enhance the accountability for management of cyber resources, the Committee recommendation consolidates cybersecurity funding under the Office of the Chief Information Officer. The recommendation includes $131,624,000, including $96,793,000 as requested within Departmental Administration and $34,831,000 as requested for CyberOne activities within the DOE working capital fund. Within this amount, not less than $71,501,000 shall be for cybersecurity and secure information.

Small Refinery Exemption.—The Department shall continue to adhere to direction provided under this heading in the explanatory statement accompanying Public Law 115–141.

OFFICE OF THE INSPECTOR GENERAL

Appropriation, 2018	$49,000,000
Budget estimate, 2019	51,330,000
Recommended, 2019	51,330,000
Comparison:	
Appropriation, 2018	+2,330,000
Budget estimate, 2019	– – –

The Office of the Inspector General performs agency-wide audit, inspection, and investigative functions to identify and correct management and administrative deficiencies that create conditions for existing or potential instances of fraud, waste, and mismanagement. The audit function provides financial and performance audits of programs and operations. The inspections function provides independent inspections and analyses of the effectiveness, efficiency, and economy of programs and operations. The investigative function provides for the detection and investigation of improper and illegal activities involving programs, personnel, and operations.

ATOMIC ENERGY DEFENSE ACTIVITIES

The Atomic Energy Defense Activities programs of the Department of Energy in the National Nuclear Security Administration (NNSA) consist of Weapons Activities, Defense Nuclear Nonproliferation, Naval Reactors, and Federal Salaries and Expenses; outside of the NNSA, these include Defense Environmental Cleanup, Other Defense Activities, and Defense Nuclear Waste Disposal. Descriptions of each of these accounts are provided below.

NATIONAL NUCLEAR SECURITY ADMINISTRATION

The Department of Energy is responsible for enhancing U.S. national security through the military application of nuclear technology and reducing the global danger from the proliferation of weapons of mass destruction. The NNSA, a semi-autonomous agency within the Department, carries out these responsibilities. Established in March 2000 pursuant to title 32 of the National Defense Authorization Act for Fiscal Year 2000, the NNSA is responsible for the management and operation of the nation's nuclear weapons complex, naval reactors, and nuclear nonproliferation activities.

Indirect Overhead and Administrative Costs.—The Committee expects the NNSA to take prompt action to reduce the size of the

overhead and administrative costs that are being charged to its programmatic activities, as directed in the fiscal year 2018 Act. The Committee is awaiting the receipt of required reports on the Department's indirect cost pools and a plan by the NNSA to reduce the size of the administrative and other overhead charges levied on its major nuclear modernization programs. None of the funds shall be used for an Institutional Plant Project that is funded through an indirect cost pool of an NNSA site. The recommendation provides robust direct funding for the NNSA's infrastructure needs, and the Committee will consider funding infrastructure investments through the site indirect cost pools after receipt of the outstanding reporting requirements. The NNSA is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act a report that accounts for the number of personnel at NNSA sites whose costs are entirely funded through site indirect cost pools.

The recommendation includes $15,313,147,000 for the NNSA, $644,195,000 above fiscal year 2018 and $222,097,000 above the budget request.

WEAPONS ACTIVITIES

Appropriation, 2018	$10,642,138,000
Budget estimate, 2019	11,017,078,000
Recommended, 2019	11,200,000,000
Comparison:	
Appropriation, 2018	+557,862,000
Budget estimate, 2019	+182,922,000

Weapons Activities ensures the safety, security, reliability, and effectiveness of the nation's nuclear weapons stockpile without nuclear testing by providing funding to four main elements: Directed Stockpile Work; Research, Development, Technology and Engineering; Infrastructure and Operations; and Security.

The NNSA's budget request for Weapons Activities proposed significant reductions to infrastructure recapitalization and deferred maintenance reduction efforts. The Committee is concerned that, in order to pay for the projected costs of its major nuclear modernization programs, the NNSA is undercutting the investments needed to address the entirety of its aging infrastructure problems and to build a nuclear weapons workforce that possesses the skills and knowledge needed to design, develop, test, and manufacture warheads, as endorsed in the Administration's Nuclear Posture Review. As the costs of the major modernization programs continue to increase, the NNSA must take concerted action to prevent cost growth associated with underperforming and poorly scoped activities. The recommendation provides additional funding above the request to continue the current pace of infrastructure recapitalization efforts across the nuclear security enterprise, including efforts to reduce the backlog of deferred maintenance and to upgrade physical security systems to improve the security posture of the NNSA sites.

The Committee notes that the original fiscal year 2019 budget request did not contain adequate information regarding the Department's request for low-yield ballistic missile funding, but a technical amendment with additional details was later submitted. When proposing new or modified nuclear weapons activities, the

Committee expects the Department to follow the requirements of 50 U.S.C. 2529, including requesting a single dedicated line item for such activities.

Plutonium.—While the NNSA was directed in the fiscal year 2017 and 2018 Acts to request funding to meet additional plutonium infrastructure mission needs under a new and separate project that could be clearly presented for consideration, the NNSA's fiscal year 2019 budget request does not contain such a project and continues to disregard Congressional direction to remove specific scope from the Chemistry and Metallurgy Research Replacement project that was in excess of the scope originally authorized by Congress. The NNSA's five year budget plans include approximately $4,000,000,000 for unspecified activities within Plutonium Sustainment to achieve long-term pit production capacity targets. The specific activities and total costs needed to achieve these targets are not described, and a management plan with near-term milestones for carrying out this significant multi-year effort are not presented. The NNSA's continued inability to produce a transparent plan to establish a pit production capability that includes a resource-loaded schedule that can be independently verified for reasonableness creates significant concerns. The recommendation establishes a new construction project within Infrastructure and Operations that shall be utilized to carry out any capital improvements and equipment installations that are needed at Los Alamos National Laboratory to meet plutonium mission needs. Not later than 60 days after the enactment of this Act, the NNSA shall provide to the Committees on Appropriations a report that describes in detail the scope, costs, and schedule, with near term milestones for any capital improvements needed, to meet its plutonium mission needs.

DIRECTED STOCKPILE WORK

Directed Stockpile Work includes all activities that directly support weapons in the nuclear stockpile, including maintenance, research, development, engineering, certification, dismantlement, and disposal activities. The Committee recommends $4,581,296,000 for Directed Stockpile Work, $571,849,000 above fiscal year 2018 and $84,909,000 below the budget request.

Life Extension Programs.—The recommendation provides full funding for the NNSA's life extension programs, including the ongoing refurbishment efforts for the B61, W76, W88, and W80 warheads. The recommendation also provides funding requested for a new modification to the W76 warhead to achieve a lower-yield capability for that system and to initiate phase 6.1 efforts on a life extension or replacement of the W78 warhead.

W78 Life Extension Program.—The Committee is concerned that the NNSA is proceeding with a premature decision to replace the W78 with an interoperable warhead based on a stockpile strategy that was not endorsed in the Administration's Nuclear Posture Review and that was not funded by the Congress when first proposed under the previous Administration. The NNSA has not resolved major technical issues identified by the JASONs Defense Advisory Group in 2015 associated with modifying existing warheads to achieve interoperability or to increase the usage of insensitive high explosives (IHE) in the stockpile. Specifically, the JASONs found

that these warhead modifications may result in sub-optimal designs and may force a reduction in design yield margins. The rationale for converting warheads from CHE to IHE is not clear considering the technical risks, the high costs involved, and the current lack of a pit production capability that could produce such warheads in quantities needed for the stockpile. The NNSA carried out a Pit Manufacturing and Certification Campaign to restore the capability to manufacture and certify up to ten plutonium pits per year from 1996 to 2007. However, the NNSA never demonstrated production at full capacity and lost the limited capacity it had built due to safety missteps that shut down plutonium operations in the PF–4 facility for several years. The NNSA hopes to achieve a far greater production capacity over the same period of time. Given the NNSA's past performance, any nuclear modernization program that relies on the successful establishment of a near-term pit production capacity should be considered by the Administration to be a high-risk endeavor and a program that does not rely on pit production should be pursued in parallel to ensure stockpile needs will continue to be met.

In lieu of the request to begin phase 6.2 activities for an interoperable warhead to replace the W78, the recommendation provides funding to begin a phase 6.1 study to fully analyze all available alternatives for the W78 warhead. Upon conclusion of phase 6.1 efforts and prior to initiation of phase 6.2 efforts, the NNSA shall provide to the Committees on Appropriations of both Houses of Congress a report that compares the costs associated with replacing the W78 warhead with an IHE design that may require new pit manufacturing to the costs of extending the life of the W78. The report shall include a detailed description of the comparative costs that may be needed to upgrade Department of Defense facilities to continue to safely handle CHE or that otherwise may reduce drivers for replacing CHE warheads with IHE.

Domestic Uranium Enrichment.—The recommendation provides $100,704,000. Within these funds, not less than $25,000,000 is for continued research, operation, and further advancement of gas centrifuge technology. The Committee supports continued operations and testing of gas centrifuge technology to further advance the technology and to maintain the specialty expertise and operational proficiency that will be necessary to meet future U.S. defense and non-defense needs for enriched uranium.

Comprehensive Beryllium Strategy.—Beryllium has been labeled a critical mineral by the United States Geological Survey for a wide variety of needs and is the only material qualified by field tests for certain nuclear weapons requirements. The Committee encourages the NNSA to continue efforts to create a unified approach to security of supply for beryllium and urges the national laboratories to create a joint plan to ensure that beryllium is available to support all the requirements of the Stockpile Stewardship and Management Plan.

RESEARCH, DEVELOPMENT, TECHNOLOGY, AND ENGINEERING

The NNSA's Research, Development, Technology, and Engineering (RDT&E) activities focus on the development and maintenance of critical capabilities, tools, and processes that support science-based stockpile stewardship and continued certification of the

stockpile in the absence of underground nuclear testing. For RDT&E, the Committee recommends $2,028,366,000, $5,999,000 below fiscal year 2018 and $32,973,000 above the budget request.

Academic Alliances and Partnerships.—Within Academic Alliances and Partnerships, not less than $20,000,000 shall be for the Minority Serving Institution Partnerships Program and not less than $9,000,000 shall be for academic grants for high energy density laboratory plasmas previously funded within the Inertial Confinement Fusion Ignition and High Yield program. The Committee supports continued research into high energy density plasmas and recognizes the partnerships between the national laboratories and research universities to address the critical need for skilled graduates to replace an aging workforce.

Enhanced Capabilities for Subcritical Experiments.—The recommendation does not include funding requested for the Advanced Sources and Detectors Major Item of Equipment (MIE). DOE project management reports indicate the NNSA has not yet achieved Critical Decision-1 (CD–1) for this MIE, despite the NNSA's budget justification that lists CD–1 as a fiscal year 2017 achievement. Rather, significant portions of the technology are reported to be at low technology readiness levels and need to be advanced prior to the issuance of CD–1. The recommendation includes $20,000,000 to continue to advance technologies needed for the MIE. The NNSA is directed to submit a project data sheet for the Advanced Sources and Detectors MIE with the scope, cost, and schedule for carrying out this project clearly presented in its fiscal year 2020 budget request.

Stockpile Responsiveness Program.—The recommendation includes additional funding above the budget request for the congressionally-mandated Stockpile Responsiveness Program.

Inertial Confinement Fusion (ICF) and High Yield.—The recommendation rejects the NNSA's request to discontinue major experimental activities within the ICF program. Funds provided to the ICF program support unique experimental platforms that help assess the state of the current stockpile and enable decisions on life extension programs without underground nuclear weapons testing. While progress in achieving ignition at the National Ignition Facility has been slow, the value of maintaining a robust research program in high energy density physics will continue to be recognized and strongly supported. To ensure that funds provided will be used to adequately maintain the NNSA's experimental capabilities as intended, the recommendation includes new funding controls within the ICF program for the National Ignition Facility at Lawrence Livermore National Laboratory, the Z Pulsed Power Facility at Sandia National Laboratories, and the Omega Laser Facility at the Laboratory for Laser Energetics. Within funds for High Energy Density R&D, the recommendation includes funding for research and support activities at Los Alamos National Laboratory, target fabrication, and not less than $8,000,000 for the Nike Laser at the Naval Research Laboratory.

While the Committee continues to support the full utilization of ICF experimental facilities, the Committee also recognizes the need to save costs to ensure adequate funding for high priority stockpile modernization activities. The NNSA is directed to pursue full cost recovery for all users at the National Ignition Facility as previously

recommended by the Department of Defense Office of Cost Assessment and Program Evaluation and to ensure that all users are transitioned to a full cost recovery model by fiscal year 2020.

Advanced Simulation and Computing.—Within amounts for Advanced Simulation and Computing (ASC), the recommendation includes $20,000,000 to continue research on advanced memory technology to address future architecture technical challenges. The Committee is concerned that the increased costs of the Exascale Computing Initiative compared to previous high performance computing (HPC) efforts are not transparently presented because the NNSA's budget request contains inadequate detail on the cost of its HPC procurements. In its fiscal year 2020 budget request, the NNSA shall submit a budget justification for ASC that clearly details funding amounts requested for base research and development activities, operations, procurements, and the Exascale Computing Initiative.

While the NNSA's next generation of HPC systems are major acquisitions, the Committee is concerned that the NNSA's procurement decisions have not been derived by conducting a thorough analysis of alternatives that will meet a set of clearly identified threshold requirements. The NNSA is directed to provide to the Committees on Appropriations of both Houses of Congress not later than 60 days after the enactment of this Act an analysis of alternatives for the NNSA's HPC acquisitions that clearly maps future system requirements to stockpile needs, compares costs and benefits of various alternatives, and provides a justification for the NNSA's preferred alternative. The Committee directs the Comptroller General to undertake a review of the NNSA's management of the ASC program to evaluate the NNSA's process for setting requirements and evaluating alternatives for the ASC program and to identify the estimated costs of the NNSA's future systems compared to previous HPC acquisitions.

INFRASTRUCTURE AND OPERATIONS

Infrastructure and Operations provides funding for the base operations, maintenance, and recapitalization of NNSA facilities and infrastructure. The Committee recommends $3,188,594,000 for Infrastructure and Operations, $70,791,000 above fiscal year 2018 and $185,858,000 above the budget request. Within Infrastructure and Operations, the NNSA shall ensure that incremental funding needed to meet individual programmatic goals are fully accounted for within funds for the corresponding programmatic activity. The Committee notes that the NNSA has been requesting significant funding amounts for projects while they are still in the very early planning stages, in violation of the requirements in 50 U.S.C. 2746 that require the NNSA to complete a conceptual design before requesting funding for a major construction project.

Maintenance and Repair of Facilities.—The Committee recommends $515,138,000, $150,138,000 above the budget request, to sustain momentum on reducing the backlog of deferred maintenance and to carry out cost accounting changes needed to ensure direct funding of maintenance at the NNSA's national laboratories and other sites.

Recapitalization.—The Committee recommends $612,661,000, $71,973,000 above the budget request, to restore funding for the Recapitalization program to the fiscal year 2018 level.

19–D-650 Plutonium Production Capability, LANL.—The recommendation includes a new construction start for infrastructure upgrades needed to carry out the NNSA's plutonium mission at Los Alamos National Laboratory.

06–D-141 Uranium Processing Facility (UPF), Y–12.—The NNSA approved starting major construction activities for the Uranium Processing Facility project without having a certified and compliant earned value management system in place for the project to accurately track project performance. The Committee is also concerned that the Department does not have adequate capacity for project review that is independent of NNSA program personnel that are accountable for project performance. While the NNSA continues to request an increasingly large amount for the project, prior year funds have not been fully expended. The recommendation provides funding at the fiscal year 2018 enacted level. The Committee will monitor project performance via financial reporting of project commitments to determine future funding needs.

04–D-125 Chemistry and Metallurgy Research (CMR) Replacement Project, LANL.—As directed by Congress in the fiscal year 2018 Act and previous years, funding for the CMR Replacement Project shall be limited to that of the original mission need for the project, that is, to relocate existing analytic chemistry and materials characterization capabilities from the legacy CMR facility.

SECURITY

Secure Transportation Asset.—Within Secure Transportation Asset Operations and Equipment, the recommendation includes $10,000,000 above the budget request to expedite procurement of the next generation Mobile Guardian Transporter (MGT). The Committee is concerned that the NNSA's program to replace its aging nuclear weapons transporter fleet with the MGT is proceeding excessively slowly. The current transporters are far beyond their 20-year service life, yet the NNSA's program would carry out planning and design activities over the next six fiscal years and would not procure the first replacement unit until fiscal year 2025. The NNSA is directed to undertake a review of its MGT program and provide to the Committees on Appropriations of both Houses of Congress not later than 120 days after the enactment of this Act a plan to carry out an expedited design and procurement program that will address its aging fleet in a more timely manner and that will better ensure that its weapons transportation programs continue to meet stringent safety and security standards.

Physical Security Improvement Program.—The Committee recommends $30,000,000 to modernize and upgrade physical security systems at the NNSA sites that are nearing the end of design life.

LEGACY CONTRACTOR PENSIONS

The Committee provides $162,292,000 for payments into the legacy University of California contractor employee defined benefit pension plans.

DEFENSE NUCLEAR NONPROLIFERATION

Appropriation, 2018	$1,999,219,000
Budget estimate, 2019	1,862,825,000
Recommended, 2019	1,902,000,000
Comparison:	
Appropriation, 2018	−97,219,000
Budget estimate, 2019	+39,175,000

The Defense Nuclear Nonproliferation account provides funding to programs of the National Nuclear Security Administration that prevent, counter, and respond to global nuclear threats. The recommendation includes $15,000,000 for the University Consortia for Nuclear Nonproliferation Research program and not less than $18,000,000 to enhance nonproliferation and emergency response training capabilities at the Department's national laboratories.

New U.S. Nonproliferation Activities in Russia.—The recommendation includes no new funds to enter into contracts and agreements with Russia in fiscal year 2019, the same as fiscal year 2018 and the budget request.

Commercial Nuclear Fuel Reprocessing.—In 1977, President Carter issued a presidential policy statement prohibiting the commercial reprocessing and recycling of plutonium. The Committee awaits submission of requirements in the fiscal year 2018 Act for the Department to investigate the status of this policy and provide a report to the Committees on Appropriations of both Houses of Congress.

DEFENSE NUCLEAR NONPROLIFERATION

Funding for the Office of Defense Nuclear Nonproliferation is provided across five programmatic areas: Global Material Security, Material Management and Minimization, Nonproliferation and Arms Control, Defense Nuclear Nonproliferation R&D, and Nonproliferation Construction.

Material Management and Minimization.—The recommendation for Material Management and Minimization includes funding for Nuclear Material Removal, Material Disposition, and Laboratory and Partnership Support, consistent with the fiscal year 2018 Act. The NNSA is directed to utilize this budget structure in future budget requests. Within funds for Material Management and Minimization, the recommendation includes $30,000,000 to expedite the removal of one metric ton of plutonium from the state of South Carolina. The recommendation does not include funding requested to start related construction activities for the dilute and dispose alternative to MOX. The NNSA has yet to submit a legislative proposal or an independent life cycle cost estimate for its dilute and dispose program.

Laboratory and Partnership Support.—The recommendation for Laboratory and Partnership Support includes $3,100,000 above the budget request to provide technical support to industry partners seeking to minimize the use of highly enriched uranium in Mo-99 production.

Since the enactment of the American Medical Isotopes Production Act of 2012, the NNSA has invested $100,000,000 of taxpayer funding with the goal of fielding a stable, domestic commercial supply of Mo-99 without the use of highly enriched uranium, but has only made limited gains on that investment. Recent foreign facility

outages have resulted in additional shortages, indicating the U.S. supply remains vulnerable to supply chain disruptions caused by aging production facilities. The recommendation includes an additional $20,000,000 for a new funding opportunity directed in the fiscal year 2018 Act. The Committee encourages the NNSA to utilize advice from other Department of Energy programs with experience in fielding advanced technologies to the commercial sector to better evaluate potential projects to ensure that additional funds are awarded to projects that are likely to provide a stable, long-term domestic supply of this important medical isotope.

MOX Fuel Fabrication Facility.—The Committee recommends $335,000,000 to sustain the current pace of construction on the MOX facility in fiscal year 2019. The bill contains a provision to allow the Secretary of Energy to terminate the project if requirements in Section 3121(b) of the Fiscal Year 2018 National Defense Authorization Act are satisfied.

Defense Nuclear Nonproliferation Research and Development (DNN R&D).—The recommendation includes $7,500,000 for the research and development of technologies to advance stable isotope, actinides, and other radioisotope production using novel techniques to support nonproliferation goals, including identification and characterization of foreign nuclear weapons programs.

Nonproliferation Fuels Development.—The recommendation includes separate funding to develop fuels to advance U.S. nonproliferation goals within DNN R&D. The NNSA is directed to utilize this budget structure in future budget requests. The recommendation includes up to $10,000,000 for research and development of low-enriched uranium fuels suitable for naval applications. The recommendation does not include funds to convert the Advanced Test Reactor (ATR) at Idaho National Laboratory or the High Flux Isotope Reactor (HFIR) at Oak Ridge National Laboratory. The NNSA estimates its program to convert five research reactors will cost approximately $1,100,000,000 and that, even at this cost, the ATR and HFIR reactors would not be converted until at least the 2030s. These reactors and their fuels are located in highly secure facilities on Department of Energy sites that have safe storage for significant quantities of nuclear materials. With no plans to otherwise remove nuclear materials from those sites, there are few benefits to proceeding with a costly effort to convert those reactors. Rather than allocate limited defense funding to conversion, the recommendation prioritizes funding to extend the life of these facilities and to upgrade safety and security postures at those sites within the respective infrastructure funding lines.

Use of Prior-Year Balances.—The NNSA has been slow to make progress on reducing the size of its prior-year balances. To offset fiscal year 2019 needs and to close out discontinued activities, the recommendation directs the use of $36,396,000 in prior-year balances within the following programs that have not received funding since fiscal year 2015: Elimination of Weapons Grade Plutonium Production in Russia, Global Threat Reduction Initiative, International Nuclear Materials Protection and Cooperation, Nonproliferation and Verification Research and Development, Nonproliferation and International Security, Russian Surplus Fissile Materials Disposition, Supporting Activities, U.S. Plutonium Dis-

position, U.S. Uranium Disposition, and Waste Solidification Building.

NUCLEAR COUNTERTERRORISM AND INCIDENT RESPONSE

The NNSA's Nuclear Counterterrorism and Incident Response programs respond to and mitigate nuclear and radiological incidents worldwide in order to defend the nation from the threat of nuclear terrorism. The Committee recommends $319,185,000.

The Radiological Assistance Program (RAP) is a critical activity that plays a major role in our nation's ability to detect, deter, and respond to a domestic nuclear or radiological incident. The Committee supports the Department's efforts to modernize mission critical equipment that has exceeded its useful life. It is imperative that response teams possess the best available technology to carry out their missions. The Committee urges the Department to move forward expeditiously with the RAP critical equipment modernization and provide the Committee with a timeline for this effort. High priority equipment recapitalization needs for this program include hand-held, high resolution, spectroscopic measurement instrumentation which is used to specifically identify nuclear threat materials.

LEGACY CONTRACTOR PENSIONS

The Committee provides $28,640,000 for payments into the legacy University of California contractor employee defined benefit pension plans.

NAVAL REACTORS

(INCLUDING TRANSFER OF FUNDS)

Appropriation, 2018	$1,620,000,000
Budget estimate, 2019	1,788,618,000
Recommended, 2019	1,788,618,000
Comparison:	
Appropriation, 2018	+168,618,000
Budget estimate, 2019	– – –

The Naval Reactors (NR) program is responsible for all aspects of naval nuclear propulsion from technology development through reactor operations to ultimate reactor plant disposal. The program provides for the design, development, testing, and evaluation of improved naval nuclear propulsion plants and reactor cores. The recommendation fully funds the request to develop the Columbia-Class submarine, previously identified as the Ohio-replacement submarine, and to refuel the S8G prototype, which is closely linked to the Columbia-Class submarine.

Naval Reactors Development.—Within amounts for Naval Reactors Development, $85,500,000 is provided for Advanced Test Reactor Operations.

FEDERAL SALARIES AND EXPENSES

Appropriation, 2018	$407,595,000
Budget estimate, 2019	422,529,000
Recommended, 2019	422,525,000
Comparison:	
Appropriation, 2018	+14,934,000
Budget estimate, 2019	– – –

The Federal Salaries and Expenses account provides corporate planning and oversight for Defense Programs, Defense Nuclear Nonproliferation, and Naval Reactors, including the NNSA field offices in New Mexico, Nevada, and California.

The Department is directed to undertake a review of the manning for the NNSA's Office of General Counsel and the NNSA's Office of Congressional and Intergovernmental Affairs to determine whether those functions could be combined with the Department of Energy's Office of the General Counsel and the Department of Energy's Office of Congressional and Intergovernmental Affairs to eliminate duplication. The Department shall report the results of its review to the Committees on Appropriations of both Houses of Congress not later 90 days after the enactment of this Act. The report shall include the Department's recommendations as well as potential savings in full time equivalent (FTE) NNSA employee allocations that the NNSA could otherwise assign to meet its needs for additional programmatic personnel under existing legislative caps. The review shall include consideration of transfer of Overseas Presence personnel that perform Department-wide duties and are funded via the Department's Working Capital Fund, but that currently count against the NNSA personnel caps on FTE staff.

ENVIRONMENTAL AND OTHER DEFENSE ACTIVITIES

DEFENSE ENVIRONMENTAL CLEANUP

Appropriation, 2018	$5,988,048,000
Budget estimate, 2019	5,630,217,000
Recommended, 2019	5,759,220,000
Comparison:	
Appropriation, 2018	−228,828,000
Budget estimate, 2019	+129,003,000

The Defense Environmental Cleanup account provides funding for identifying and reducing risks and managing waste at sites where the nation carried out defense-related nuclear research and production activities that resulted in radioactive, hazardous, and mixed waste contamination requiring remediation, stabilization, or some other cleanup action.

While the Department's budget request for the Office of Environmental Management (EM) included increases at some sites, those increases were at the expense of other important cleanup activities at Hanford, Idaho, and Oak Ridge. The Committee's recommendation continues to fund a balanced approach that sustains the momentum of ongoing cleanup activities more consistently across all DOE cleanup sites.

Not later than 15 days after the enactment of this Act, EM shall provide to the Committees of Appropriations of both Houses of Congress an updated project data sheet for each EM major construction project funded by this Act for which the Department listed a cost or schedule reporting element as "TBD" in its fiscal year 2019 budget request.

Excess Facilities.—The recommendation includes additional one-time increases to accelerate the decontamination and decommissioning of certain high-risk excess facilities that were previously not slated for cleanup in the near term. Since the excess facilities projects funded in fiscal year 2018 are not shovel-ready, final cost

estimates and schedules for how soon those efforts can be accomplished have not yet been developed. The Committee will monitor the progress of the accelerations funded in fiscal year 2018 to determine when and where additional funds can be executed on specific projects.

Within amounts for OR Excess Facilities D&D, $15,000,000 is for demolition of Alpha-4 Building 9201–4 COLEX Process Equipment and $10,000,000 is for demolition of Building 9213. Within ID Excess Facilities D&D, $10,000,000 is provided for the D&D of excess facilities and infrastructure at Idaho National Laboratory. Within RL Excess Facilities D&D, EM shall commence work on high risk contaminated excess facilities at the Hanford Site identified in its Plan for Deactivation and Decommissioning of Nonoperational Defense Nuclear Facilities submitted to Congress in December 2016. In identifying new accelerations, EM should prioritize higher risk facilities identified as "Tier I" to take advantage of the current skilled workforce at the site.

Hanford Site.—The recommendation includes funds above the budget request for the Richland Operations Office to support stable funding for general cleanup activities at the Hanford Site, to ensure expeditious completion of the remaining Columbia River Corridor work, and to prevent delays to existing and new Tri-Party Agreement milestones.

Within the Office of River Protection, $15,000,000 is provided for the planning and conduct of a pilot plant demonstration project to validate commercial scale application of treatment, stabilization, transportation, and disposal of Hanford tank waste that includes, among other activities, filtration and ion-exchange of tank waste to qualify the pretreated waste stream as low-activity waste (LAW). The Department shall submit to the Committees on Appropriations of both Houses of Congress not later than September 30, 2019, a report that includes the lessons learned from the demonstration, estimated potential tank waste lifecycle cost and schedule savings, and recommendations, including alternatives for off-site commercial LAW treatment and disposal from an initial set of three Hanford tanks.

Waste Treatment Plant (WTP).—The recommendation provides funding for the Waste Treatment Plant consistent with the reprogramming control points in the fiscal year 2018 Act, which better reflects the actual execution of the project. The Department is directed to submit its fiscal year 2020 budget request consistent with this budget structure.

The Department is directed to resume full engineering design to resolve safety-related design issues for the High-Level Waste Treatment facility and the Pretreatment facility and shall report to the Committees on Appropriations of both Houses of Congress before moving forward with any plans to place the High-Level Waste Treatment facility and the Pre-Treatment facility into preservation mode for an extended period of time.

The Government Accountability Office recently produced a report that cast doubt on the Office of River Protection's ability to carry out oversight of its contractors' quality assurance programs for the WTP project because its organizational structure did not ensure the independence of its oversight division. To ensure that oversight has been effectively conducted and that quality assurance issues have

been appropriately identified prior to startup, the Department is directed to contract with an outside, independent agent with expertise in quality assurance programs to review current quality assurance procedures and to determine the full extent to which problems exist in all WTP structures.

Idaho Site.—Within amounts for Idaho, $5,000,000 is provided for maturing the application of technologies to retrieve and disposition remote-handled mixed low level radioactive waste.

Savannah River Site.—Within available funds for Site Risk Management, $3,000,000 shall be to support the disposition of spent fuel from the High Flux Isotope Reactor. As directed in fiscal year 2018, EM shall not change cost sharing arrangements to reallocate site indirect costs from the NNSA to EM. The recommendation does not include additional funds for the Emergency Operations Center as EM has not yet completed a conceptual design for that project. Per 50 U.S.C. 2746, the Department is required to complete a conceptual design before requesting funding for a major construction project. The recommendation reallocates prior-year balances from Saltstone Disposal Unit 6 to fund additional needs of follow-on disposal unit projects at Savannah River.

19–D–710 Savannah River Security System Replacement.—The recommendation includes $10,000,000. The project to upgrade the security systems at H, L, and K area facilities is a major construction activity, and the Department is required to obtain congressional authorization for carrying out the project as it did for similar projects at the Nevada National Security Site, Los Alamos National Laboratory, and the Y–12 National Security Complex. Not later than 30 days after the enactment of this Act, EM shall submit a project data sheet that includes planned scope, cost estimates, and schedule for the upgrade project.

Technology Development.—Within Technology Development and Deployment, $5,000,000 is provided for the National Spent Nuclear Fuel Program to address issues related to storing, transporting, processing, and disposing of DOE-owned and managed spent nuclear fuel. Within these amounts, EM shall utilize funding to address the need for additional assessments into material degradation that may occur as a result of multiple decades of EM spent nuclear fuel storage facilities, nuclear material measuring and monitoring in DOE storage systems, and other activities recommendation by the U.S. Nuclear Waste Technical Review Board in its 2017 report on the Management and Disposal of U.S. Department of Energy Spent Nuclear Fuel. Also within Technology Development and Deployment, up to $5,000,000 shall be for research and development projects to improve worker safety and the Department is encouraged to consider exploring options to develop and deploy wearable robotic devices to enhance worker safety.

The Committee encourages the Department to continue a robust research effort to advance nuclear filtration testing and the development of state of the art containment ventilation systems.

OTHER DEFENSE ACTIVITIES

Appropriation, 2018	$840,000,000
Budget estimate, 2019	853,300,000
Recommended, 2019	870,300,000
Comparison:	
Appropriation, 2018	+30,300,000
Budget estimate, 2019	+17,000,000

The Other Defense Activities account provides funding for the Office of Environment, Health, Safety and Security; the Office of Independent Enterprise Assessments; the Office of Legacy Management; Specialized Security Activities; Defense Related Administrative Support; and the Office of Hearings and Appeals.

Within the Office of Nuclear Safety, the Committee directs the Department to continue its research into developing an advanced simulation tool that can more realistically predict the nonlinear response of critical nuclear facilities during earthquakes. With many mission critical facilities in seismically active regions, this research is in our nation's vital interest.

The agreement includes $17,000,000 above the budget request for targeted investments to defend the U.S. energy sector against the evolving threat of cyber and other attacks in support of the resiliency of the nation's electric grid and energy infrastructure.

DEFENSE NUCLEAR WASTE DISPOSAL

Appropriation, 2018	$– – –
Budget estimate, 2019	30,000,000
Recommended, 2019	30,000,000
Comparison:	
Appropriation, 2018	+30,000,000
Budget estimate, 2019	– – –

The Defense Nuclear Waste Disposal appropriation was established by the Congress for activities related to the disposal of defense high-level waste from the Department's atomic energy defense activities in lieu of payment from the Department of Energy into the Nuclear Waste Fund.

POWER MARKETING ADMINISTRATIONS

Management of the federal power marketing functions was transferred from the Department of the Interior to the Department of Energy in the Department of Energy Organization Act of 1977 (Public Law 95–91). These functions include the power marketing activities authorized under section 5 of the Flood Control Act of 1944 and all other functions of the Bonneville Power Administration, the Southeastern Power Administration, the Southwestern Power Administration, and the power marketing functions of the Bureau of Reclamation that have been transferred to the Western Area Power Administration.

All four power marketing administrations give preference in the sale of their power to publicly-owned and cooperatively-owned utilities. Operations of the Bonneville Power Administration are financed principally under the authority of the Federal Columbia River Transmission System Act (Public Law 93–454). Under this Act, the Bonneville Power Administration is authorized to use its revenues to finance the costs of its operations, maintenance, and

capital construction, and to sell bonds to the Treasury if necessary to finance any additional capital program requirements.

Beginning in fiscal year 2011, power revenues from the Southeastern, Southwestern, and Western Area Power Administrations, which were previously classified as mandatory offsetting receipts, were reclassified as discretionary offsetting collections to directly offset annual expenses. The capital expenses of Southwestern and Western Area Power Administrations are appropriated annually.

Beginning in fiscal year 2018, the Congressional Budget Office (CBO) changed its scoring of the power marketing administrations (PMAs). The change stemmed from information on execution of language regarding purchase power and wheeling expenses and offsetting collections included in this bill each year. The Committee appreciates the PMAs' and their customers' efforts to provide additional financial information. To address the increased score in the short-term, the recommendation reduces the maximum level for purchase power and wheeling below the budget request. The Committee will continue to work with the PMAs, their customers, and CBO to resolve scoring issues appropriately.

BONNEVILLE POWER ADMINISTRATION FUND

The Bonneville Power Administration (BPA) is the Department of Energy's marketing agency for electric power in the Pacific Northwest. Bonneville provides electricity to a 300,000 square mile service area in the Columbia River drainage basin. Bonneville markets the power from federal hydropower projects in the Northwest, as well as power from non-federal generating facilities in the region, and exchanges and markets surplus power with Canada and California.

The Committee encourages the Corps of Engineers and Bureau of Reclamation to work with the BPA on efforts to drive down costs and promote BPA's long-term competitiveness. Assuring BPA competitiveness is important not only for BPA's operation, but to ensure Treasury repayment and assist the Corps and Reclamation in meeting their core functions (including navigation, flood control, water supply, and irrigation). The Committee is pleased that the operating agencies have taken important short-term steps on cost control and encourages efforts to make long-term improvements. The Committee encourages the Corps and Bureau to work with BPA to optimize investment in the federal hydropower system, including prioritization of investments, effective project management approaches, including efficient procurement of equipment and services, and ensuring the cost effectiveness of any proposed higher capital spending levels for hydropower facilities. In addition, the Committee urges the operating agencies to strongly consider a review of the allocation of project costs including joint costs for the projects in the Federal Columbia River Power System and a review of the authorities allowing changes to such allocations, and to explore matters such as: (1) a more flexible workforce and business-oriented organization; (2) increased reliance on system automation as appropriate; (3) strategies to get labor costs stable or reduced long-term; and (4) further review of costs of conducting the new environmental impact statement for Columbia River System Operations to determine what costs are truly incremental.

OPERATION AND MAINTENANCE, SOUTHEASTERN POWER ADMINISTRATION

Budget estimate, 2019	$– – –
Appropriation, 2018	– – –
Recommended, 2019	– – –
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	– – –

The Southeastern Power Administration (SEPA) markets hydroelectric power produced at 22 Corps Projects in 11 states in the southeast. Southeastern does not own or operate any transmission facilities, so it contracts to "wheel" its power using the existing transmission facilities of area utilities.

OPERATION AND MAINTENANCE, SOUTHWESTERN POWER ADMINISTRATION

Appropriation, 2018	$11,400,000
Budget estimate, 2019	10,400,000
Recommended, 2019	10,400,000
Comparison:	
Appropriation, 2018	−1,000,000
Budget estimate, 2019	– – –

The Southwestern Power Administration (SWPA) markets hydroelectric power produced at 24 Corps projects in the six-state area of Arkansas, Kansas, Louisiana, Missouri, Oklahoma, and Texas. SWPA operates and maintains 1,380 miles of transmission lines, along with supporting substations and communications sites.

CONSTRUCTION, REHABILITATION, OPERATION AND MAINTENANCE, WESTERN AREA POWER ADMINISTRATION

Appropriation, 2018	$93,372,000
Budget estimate, 2019	89,372,000
Recommended, 2019	89,372,000
Comparison:	
Appropriation, 2018	−4,000,000
Budget estimate, 2019	– – –

The Western Area Power Administration is responsible for marketing the electric power generated by the Bureau of Reclamation, the Corps, and the International Boundary and Water Commission. Western also operates and maintains a system of transmission lines nearly 17,000 miles long. Western provides electricity to 15 western states over a service area of 1.3 million square miles.

FALCON AND AMISTAD OPERATING AND MAINTENANCE FUND

Appropriation, 2018	$228,000
Budget estimate, 2019	228,000
Recommended, 2019	228,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	– – –

Falcon Dam and Amistad Dam are two international water projects located on the Rio Grande River between Texas and Mexico. Power generated by hydroelectric facilities at these two dams is sold to public utilities through the Western Area Power Administration. The Foreign Relations Authorization Act for Fiscal Years 1994 and 1995 created the Falcon and Amistad Operating and

Maintenance Fund to defray the costs of operation, maintenance, and emergency activities. The Fund is administered by the Western Area Power Administration for use by the Commissioner of the U.S. Section of the International Boundary and Water Commission.

The budget request includes a proposal for authority to accept contributed funds in fiscal year 2019 for use in fulfilling duties associated with the Falcon and Amistad Dams. This authority would be equivalent to the authority used throughout the Western Area Power Administration to secure alternative financing. The Committee includes this proposal.

The Committee continues to hear concerns that additional infrastructure investments are necessary at these dams. The fiscal year 2018 Act directed Western to coordinate with the International Boundary and Water Commission to determine a plan for addressing any needed improvements and brief the Committees on Appropriations of both Houses of Congress not later than 90 days after the enactment of this Act on progress towards finalizing a plan. The Committee reiterates this direction.

FEDERAL ENERGY REGULATORY COMMISSION

SALARIES AND EXPENSES

Appropriation, 2018	$367,600,000
Budget estimate, 2019	369,900,000
Recommended, 2019	369,900,000
Comparison:	
Appropriation, 2018	+2,300,000
Budget estimate, 2019	– – –

REVENUES

Appropriation, 2018	$ – 367,600,000
Budget estimate, 2019	– 369,900,000
Recommended, 2019	– 369,900,000
Comparison:	
Appropriation, 2018	– 2,300,000
Budget estimate, 2019	– – –

The Committee recommendation for the Federal Energy Regulatory Commission (FERC) is $369,900,000, the same as the budget request. Revenues for FERC are established at a rate equal to the budget authority, resulting in a net appropriation of $0.

The fiscal year 2018 Act directed FERC to analyze electricity transmission investment incentives in rate treatments to determine ways to encourage efficient investment for critical infrastructure security and to report this analysis to the Committees on Appropriations of both Houses of Congress not later than 180 days after the enactment of the Act. The Committee encourages FERC to meet the provided deadline.

Resilience.—California recently experienced one of its worst fire seasons in modern history, resulting in severe challenges to the well-being of utilities and the electric system in that state. The Committee is concerned that the safe, reliable, and affordable delivery of electricity to consumers could be compromised by the increasing frequency and severity of natural disasters—including hurricanes, floods, and wildfires. The Committee directs the Federal Energy Regulatory Committee (FERC) to continue working with industry on cost-effective ways within its jurisdiction to increase the resilience of the electric transmission system. These ef-

forts shall include just and reasonable cost-recovery mechanisms for the development of resilient infrastructure and system repair and restoration, as well as practices to better prepare the nation's bulk power system for natural disasters. FERC shall study the impacts and effects of strict liability doctrines on utilities' ability to invest in the reliability and resilience of transmission systems. FERC is directed to report its findings and recommendations to the Committees on Appropriations of both Houses of Congress, as well as the House Energy and Commerce Committee and the Senate Energy and Natural Resources Committee, not later than 90 days after the enactment of this Act.

COMMITTEE RECOMMENDATION

The Committee's detailed funding recommendations for programs in Title III are contained in the following table:

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
ENERGY PROGRAMS					
ENERGY EFFICIENCY AND RENEWABLE ENERGY					
Sustainable Transportation:					
Vehicle technologies	337,500	68,500	303,000	-34,500	+234,500
Bioenergy technologies	221,545	37,000	205,000	-16,545	+168,000
Hydrogen and fuel cell technologies	115,000	58,000	102,000	-13,000	+44,000
Subtotal, Sustainable Transportation	674,045	163,500	610,000	-64,045	+446,500
Renewable Energy:					
Solar energy	241,600	67,000	189,000	-52,600	+122,000
Wind energy	92,000	33,000	84,440	-7,560	+51,440
Water power	105,000	45,000	95,000	-10,000	+50,000
Geothermal technologies	80,906	30,000	69,500	-11,406	+39,500
Subtotal, Renewable Energy	519,506	175,000	437,940	-81,566	+262,940
Energy Efficiency:					
Advanced manufacturing	305,000	75,000	260,000	-45,000	+185,000
Building technologies	220,727	57,000	180,000	-40,727	+123,000
Federal energy management program	27,000	10,000	27,000	---	+17,000
Weatherization and Intergovernmental Programs:					
Weatherization:					
Weatherization assistance program	248,000	---	248,000	---	+248,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Training and technical assistance	3,000	---	3,000	---	+3,000
Subtotal, Weatherization	251,000	---	251,000	---	+251,000
State Energy Program Grants	55,000	---	55,000	---	+55,000
Subtotal, Weatherization and Intergovernmental Program	306,000	---	306,000	---	+306,000
Subtotal, Energy Efficiency	858,727	142,000	773,000	-85,727	+631,000
Corporate Support:					
Facilities and infrastructure:					
National Renewable Energy Laboratory (NREL)	92,000	90,000	92,000	---	+2,000
Program direction	162,500	125,110	153,700	-8,800	+28,590
Strategic programs	15,000	---	12,000	-3,000	+12,000
Subtotal, Corporate Support	269,500	215,110	257,700	-11,800	+42,590
Subtotal, Energy efficiency and renewable energy	2,321,778	695,610	2,078,640	-243,138	+1,383,030
TOTAL, ENERGY EFFICENCY AND RENEWABLE ENERGY	2,321,778	695,610	2,078,640	-243,138	+1,383,030

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
ELECTRICITY DELIVERY AND ENERGY RELIABILITY					
Research and development:					
Transmission Reliability	39,000	---	---	-39,000	---
Resilient Distribution Systems	38,000	---	---	-38,000	---
Cyber security for energy delivery systems	75,829	---	---	-75,829	---
Energy storage	41,000	---	---	-41,000	---
Transformer resilience and advanced components	7,000	---	---	-7,000	---
Subtotal	200,829	---	---	-200,829	---
Transmission Permitting and Technical Assistance	7,000	---	---	-7,000	---
Infrastructure security and energy restoration	12,000	---	---	-12,000	---
Program direction	28,500	---	---	-28,500	---
Subtotal, Electricity Delivery and Energy Reliability	248,329	---	---	-248,329	---
TOTAL, ELECTRICITY DELIVERY AND ENERGY RELIABILITY	248,329	---	---	-248,329	---
CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE					
Cybersecurity for energy delivery systems	---	70,000	116,500	+116,500	+46,500
Infrastructure security and energy restoration	---	18,000	18,000	+18,000	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Program direction	---	7,800	11,500	+11,500	+3,700
TOTAL, CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE	---	95,800	146,000	+146,000	+50,200
ELECTRICITY DELIVERY					
Transmission reliability	---	13,000	45,000	+45,000	+32,000
Resilient distribution systems	---	10,000	48,000	+48,000	+38,000
Energy storage	---	8,000	51,000	+51,000	+43,000
Transformer resilience and advanced components	---	5,000	7,000	+7,000	+2,000
Transmission permitting and technical assistance	---	6,000	7,000	+7,000	+1,000
Program direction	---	19,309	17,000	+17,000	-2,309
TOTAL, ELECTRICITY DELIVERY	---	61,309	175,000	+175,000	+113,691
NUCLEAR ENERGY					
Research and development:					
Integrated university program	5,000	---	5,000	---	+5,000
STEP R&D	5,000	---	5,000	---	+5,000
Nuclear energy enabling technologies	159,000	116,000	164,300	+5,300	+48,300
Reactor concepts RD&D	237,000	163,000	370,000	+133,000	+207,000
Fuel cycle research and development	260,056	60,000	255,200	-4,856	+195,200
International nuclear energy cooperation	3,000	2,500	3,000	---	+500
Subtotal	669,056	341,500	802,500	+133,444	+461,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Infrastructure:					
Radiological facilities management:					
Space and defense infrastructure	20,000	---	---	-20,000	---
Research reactor infrastructure	9,000	9,000	9,000	---	---
Subtotal	29,000	9,000	9,000	-20,000	---
INL facilities management:					
INL operations and infrastructure	288,000	204,000	300,000	+12,000	+96,000
Construction:					
16-E-200 Sample preparation laboratory	6,000	---	22,000	+16,000	+22,000
Subtotal, INL facilities management	294,000	204,000	322,000	+28,000	+118,000
Subtotal, Infrastructure	323,000	213,000	331,000	+8,000	+118,000
Idaho sitewide safeguards and security	133,000	136,090	146,090	+13,090	+10,000
Program direction	80,000	66,500	66,500	-13,500	---
Subtotal, Nuclear Energy	1,205,056	757,090	1,346,090	+141,034	+589,000
TOTAL, NUCLEAR ENERGY	1,205,056	757,090	1,346,090	+141,034	+589,000
FOSSIL ENERGY RESEARCH AND DEVELOPMENT					
Coal CCS and Power Systems:					
Carbon Capture	100,671	20,000	95,000	-5,671	+75,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Carbon Storage	98,096	20,000	97,000	-1,096	+77,000
Advanced Energy Systems	112,000	135,000	162,000	+50,000	+27,000
Cross Cutting Research	58,350	78,300	73,300	+14,950	-5,000
NETL Coal Research and Development	53,000	65,000	58,000	+5,000	-7,000
STEP (Supercritical CO2)	24,000	25,000	22,430	-1,570	-2,570
Transformational Coal Pilots	35,000	---	25,000	-10,000	+25,000
Subtotal, CCS and Power Systems	481,117	343,300	532,730	+51,613	+189,430
Natural Gas Technologies: Research	50,000	5,500	50,000	---	+44,500
Unconventional fossil energy technologies from petroleum - oil technologies	40,000	14,000	40,000	---	+26,000
Program direction	60,000	61,070	61,070	+1,070	---
Special recruitment programs	700	200	700	---	+500
NETL Research and Operations	50,000	40,000	52,500	+2,500	+12,500
NETL Infrastructure	45,000	38,000	48,000	+3,000	+10,000
Subtotal, Fossil Energy Research and Development	726,817	502,070	785,000	+58,183	+282,930
TOTAL, FOSSIL ENERGY RESEARCH AND DEVELOPMENT	726,817	502,070	785,000	+58,183	+282,930
NAVAL PETROLEUM AND OIL SHALE RESERVES	20,200	20,550	10,000	-10,200	-10,550
Use of prior year balances	-15,300	-10,550	---	+15,300	+10,550
TOTAL, NAVAL PETROLEUM AND OIL SHALE RESERVES	4,900	10,000	10,000	+5,100	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
STRATEGIC PETROLEUM RESERVE					
STRATEGIC PETROLEUM RESERVE	252,000	175,105	252,000	---	+76,895
Sale of crude oil	-350,000	-300,000	-300,000	+50,000	---
Use of sale proceeds	350,000	---	300,000	-50,000	+300,000
TOTAL, STRATEGIC PETROLEUM RESERVE	252,000	-124,895	252,000	---	+376,895
SPR PETROLEUM ACCOUNT					
SPR Petroleum Account	8,400	---	10,000	+1,600	+10,000
TOTAL, SPR PETROLEUM ACCOUNT	8,400	---	10,000	+1,600	+10,000
NORTHEAST HOME HEATING OIL RESERVE					
NORTHEAST HOME HEATING OIL RESERVE	10,000	10,000	10,000	---	---
Use of prior year balances	-3,500	---	---	+3,500	---
TOTAL, NORTHEAST HOME HEATING OIL RESERVE	6,500	10,000	10,000	+3,500	---
ENERGY INFORMATION ADMINISTRATION	125,000	115,035	125,000	---	+9,965

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
NON-DEFENSE ENVIRONMENTAL CLEANUP					
Fast Flux Test Reactor Facility (WA)	2,240	2,240	2,240	---	---
Gaseous Diffusion Plants	101,304	100,575	100,575	-729	---
Small sites	119,856	55,031	62,185	-57,671	+7,154
West Valley Demonstration Project	75,000	60,554	75,000	---	+14,446
TOTAL, NON-DEFENSE ENVIRONMENTAL CLEANUP	298,400	218,400	240,000	-58,400	+21,600
URANIUM ENRICHMENT DECONTAMINATION AND DECOMMISSIONING FUND					
Oak Ridge	194,673	151,039	179,454	-15,219	+28,415
Nuclear facility D&D, Paducah	205,530	202,581	223,000	+17,470	+20,419
Portsmouth:					
Nuclear facility D&D, Portsmouth	342,389	306,931	372,389	+30,000	+65,458
Construction:					
15-U-408 On-site waste disposal facility, Portsmouth	38,882	41,168	41,168	+2,286	---
Total, Portsmouth	381,271	348,099	413,557	+32,286	+65,458
Pension and community and regulatory support	22,794	21,030	21,030	-1,764	---
Title X uranium/thorium reimbursement program	35,732	30,000	32,959	-2,773	+2,959
TOTAL, UED&D FUND	840,000	752,749	870,000	+30,000	+117,251

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
SCIENCE					
Advanced scientific computing research	605,000	666,304	689,500	+84,500	+23,196
Construction:					
17-SC-20 SC Exascale Computing Project	205,000	232,706	225,000	+20,000	-7,706
Subtotal, Advanced scientific computing research	810,000	899,010	914,500	+104,500	+15,490
Basic energy sciences:					
Research	1,744,900	1,635,700	1,759,933	+15,033	+124,233
Construction:					
13-SC-10 LINAC coherent light source II, SLAC	192,100	139,300	129,300	-62,800	-10,000
18-SC-10 APS Upgrade, ANL	93,000	60,000	130,000	+37,000	+70,000
18-SC-11 Spallation Neutron Source Proton Power Upgrade (PPU), ORNL	36,000	---	20,000	-16,000	+20,000
18-SC-12 Advanced Light Source Upgrade (ALS-U), LBNL	16,000	10,000	50,000	+34,000	+40,000
18-SC-13 LINAC coherent light source II HE, SLAC	8,000	5,000	40,000	+32,000	+35,000
Subtotal, Construction	345,100	214,300	369,300	+24,200	+155,000
Subtotal, Basic energy sciences	2,090,000	1,850,000	2,129,233	+39,233	+279,233
Biological and environmental research	673,000	500,000	673,000	---	+173,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Fusion energy sciences:					
Research	410,111	265,000	427,000	+16,889	+162,000
Construction:					
14-SC-60 ITER	122,000	75,000	163,000	+41,000	+88,000
Subtotal, Fusion energy sciences	532,111	340,000	590,000	+57,889	+250,000
High energy physics:					
Research	767,600	627,000	789,510	+21,910	+162,510
Construction:					
11-SC-40 Long baseline neutrino facility / deep underground neutrino experiment, FNAL	95,000	113,000	175,000	+80,000	+62,000
11-SC-41 Muon to electron conversion experiment, FNAL	44,400	30,000	30,000	-14,400	---
18-SC-42 PIP-II, FNAL	1,000	---	10,000	+9,000	+10,000
Subtotal, Construction	140,400	143,000	215,000	+74,600	+72,000
Subtotal, High energy physics	908,000	770,000	1,004,510	+96,510	+234,510
Nuclear physics:					
Operations and maintenance	586,800	525,000	615,000	+28,200	+90,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Construction:					
14-SC-50 Facility for rare isotope beams, Michigan State University	97,200	75,000	75,000	-22,200	---
Subtotal, Nuclear physics	684,000	600,000	690,000	+6,000	+90,000
Workforce development for teachers and scientists	19,500	19,000	19,500	---	+500
Science laboratories infrastructure:					
Infrastructure support:					
Payment in lieu of taxes	1,713	1,513	1,513	-200	---
Oak Ridge landlord	6,382	6,434	6,434	+52	---
Facilities and infrastructure	70,347	30,724	80,000	+9,653	+49,276
Oak Ridge nuclear operations	26,000	10,000	10,000	-16,000	---
Subtotal	104,442	48,671	97,947	-6,495	+49,276
Construction:					
19-SC-71 Science User Support Center, BNL	---	2,000	10,000	+10,000	+8,000
19-SC-72 Electrical Capacity and Distribution Capability, ANL	---	20,000	60,000	+60,000	+40,000
18-SC-71 Energy Sciences Capability, PNNL	20,000	4,000	40,000	+20,000	+36,000
17-SC-71 Integrated Engineering Research Center, FNAL	20,000	5,000	40,000	+20,000	+35,000
17-SC-73 Core Facility Revitalization, BNL	30,000	13,632	42,200	+12,200	+28,568
15-SC-78 Integrative genomics building, LBNL	38,350	13,549	---	-38,350	-13,549

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
15-SC-76 Materials design laboratory, ANL	44,500	20,000	---	-44,500	-20,000
Subtotal	152,850	78,181	192,200	+39,350	+114,019
Subtotal, Science laboratories infrastructure	257,292	126,852	290,147	+32,855	+163,295
Safeguards and security	103,000	106,110	106,110	+3,110	---
Science program direction	183,000	180,000	183,000	---	+3,000
Subtotal, Science	6,259,903	5,390,972	6,600,000	+340,097	+1,209,028
TOTAL, SCIENCE	6,259,903	5,390,972	6,600,000	+340,097	+1,209,028
NUCLEAR WASTE DISPOSAL	---	90,000	190,000	+190,000	+100,000
ADVANCED RESEARCH PROJECTS AGENCY-ENERGY					
ARPA-E projects	324,064	---	295,750	-28,314	+295,750
Program direction	29,250	---	29,250	---	+29,250
Subtotal, ARPA-E	353,314	---	325,000	-28,314	+325,000
TOTAL, ARPA-E	353,314	---	325,000	-28,314	+325,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE 17 - INNOVATIVE TECHNOLOGY LOAN GUARANTEE PGM					
Administrative expenses	33,000	10,000	32,000	-1,000	+22,000
Offsetting collection	-10,000	-15,000	-15,000	-5,000	---
Rescission	---	-240,000	---	---	+240,000
TOTAL, TITLE 17 - INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM	23,000	-245,000	17,000	-6,000	+262,000
ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PGM					
Administrative expenses	5,000	1,000	5,000	---	+4,000
TOTAL, ADVANCED TECHNOLOGY VEHICLES MANUFACTURING LOAN PROGRAM	5,000	1,000	5,000	---	+4,000
TRIBAL ENERGY LOAN GUARANTEE PROGRAM	1,000	---	1,000	---	+1,000
Rescission	---	-8,500	---	---	+8,500
TOTAL, TRIBAL ENERGY LOAN GUARANTEE PROGRAM	1,000	-8,500	1,000	---	+9,500
DEPARTMENTAL ADMINISTRATION					
Administrative operations:					
Salaries and expenses:					
Office of the Secretary:					
Program direction	5,300	5,395	5,395	+95	---
Chief Financial Officer	48,484	48,912	48,912	+428	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Chief Information Officer	126,274	96,793	131,624	+5,350	+34,831
Office of Indian energy policy and programs	18,000	10,005	20,000	+2,000	+9,995
Congressional and intergovernmental affairs	6,200	6,212	6,212	+12	---
Economic impact and diversity	10,169	10,005	10,169	---	+164
Other Departmental Administration	174,225	173,901	173,901	-324	---
Subtotal, Salaries and expenses	388,652	351,223	396,213	+7,561	+44,990
Subtotal, Administrative operations	388,652	351,223	396,213	+7,561	+44,990
Strategic partnership projects	40,000	40,000	40,000	---	---
Subtotal, Departmental administration	428,652	391,223	436,213	+7,561	+44,990
Use of prior-year balances	---	-2,000	-2,000	-2,000	---
Funding from other defense activities	-143,000	-153,689	-153,689	-10,689	---
Total, Departmental administration (gross)	285,652	235,534	280,524	-5,128	+44,990
Miscellaneous revenues	-96,000	-96,000	-96,000	---	---
TOTAL, DEPARTMENTAL ADMINISTRATION (net)	189,652	139,534	184,524	-5,128	+44,990

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
OFFICE OF THE INSPECTOR GENERAL					
Office of the inspector general	49,000	51,330	51,330	+2,330	---
TOTAL, ENERGY PROGRAMS	12,918,049	8,512,504	13,421,584	+503,535	+4,909,080
ATOMIC ENERGY DEFENSE ACTIVITIES					
NATIONAL NUCLEAR SECURITY ADMINISTRATION					
WEAPONS ACTIVITIES					
Directed stockpile work:					
B61 Life extension program	788,572	794,049	794,049	+5,477	---
W76 Life extension program	224,134	48,888	48,888	-175,246	---
W88 Alteration program	332,292	304,285	304,285	-28,007	---
W80-4 Life extension program	399,090	654,766	654,766	+255,676	---
IW-1	---	53,000	---	---	-53,000
W76-2 Modification program	---	65,000	65,000	+65,000	---
W78 Life extension program	---	---	53,000	+53,000	+53,000
Subtotal	1,744,088	1,919,988	1,919,988	+175,900	---
Stockpile systems:					
B61 Stockpile systems	59,729	64,547	64,547	+4,818	---
W76 Stockpile systems	51,400	94,300	94,300	+42,900	---
W78 Stockpile systems	60,100	81,329	81,329	+21,229	---
W80 Stockpile systems	80,087	80,204	80,204	+117	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
B83 Stockpile systems	35,762	35,082	35,082	-680	---
W87 Stockpile systems	83,200	83,107	83,107	-93	---
W88 Stockpile systems	131,576	180,913	180,913	+49,337	---
Subtotal	501,854	619,482	619,482	+117,628	---
Weapons dismantlement and disposition	56,000	56,000	56,000	---	---
Stockpile services:					
Production support	485,400	512,916	500,000	+14,600	-12,916
Research and Development support	31,150	38,129	34,000	+2,850	-4,129
R and D certification and safety	196,840	216,582	210,000	+13,160	-6,582
Management, technology, and production	285,400	300,736	300,736	+15,336	---
Subtotal	998,790	1,068,363	1,044,736	+45,946	-23,627
Strategic materials:					
Uranium sustainment	24,000	87,182	87,182	+63,182	---
Plutonium sustainment	210,367	361,282	300,000	+89,633	-61,282
Tritium sustainment	198,152	205,275	205,275	+7,123	---
Lithium sustainment	---	29,135	29,135	+29,135	---
Domestic uranium enrichment	60,000	100,704	100,704	+40,704	---
Strategic materials sustainment	216,196	218,794	218,794	+2,598	---
Subtotal	708,715	1,002,372	941,090	+232,375	-61,282
Subtotal, Directed stockpile work	4,009,447	4,666,205	4,581,296	+571,849	-84,909

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Research, Development, Test and Evaluation (RDT&E):					
Science:					
Advanced certification	57,710	57,710	57,710	---	---
Primary assessment technologies	89,313	95,057	95,057	+5,744	---
Dynamic materials properties	120,000	131,000	131,000	+11,000	---
Advanced radiography	37,600	32,544	32,544	-5,056	---
Secondary assessment technologies	76,833	77,553	77,553	+720	---
Academic alliances and partnerships	52,963	53,364	63,364	+10,401	+10,000
Enhanced capabilities for subcritical experiments	40,105	117,632	20,000	-20,105	-97,632
Subtotal	474,524	564,860	477,228	+2,704	-87,632
Engineering:					
Enhanced surety	39,717	43,226	43,226	+3,509	---
Weapons system engineering assessment technology	23,029	27,536	27,536	+4,507	---
Nuclear survivability	45,230	48,230	48,230	+3,000	---
Enhanced surveillance	45,147	58,375	50,000	+4,853	-8,375
Stockpile responsiveness	30,000	34,000	55,000	+25,000	+21,000
Subtotal	183,123	211,367	223,992	+40,869	+12,625
Inertial confinement fusion ignition and high yield:					
Ignition	79,575	22,434	---	-79,575	-22,434
Support of other stockpile programs	23,565	17,397	---	-23,565	-17,397
Diagnostics, cryogenics and experimental support	77,915	51,453	---	-77,915	-51,453
Pulsed power inertial confinement fusion	7,596	8,310	---	-7,596	-8,310

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Joint program in high energy density laboratory plasmas	9,492	---	---	-9,492	---
Facility operations and target production	346,791	319,333	---	-346,791	-319,333
High energy density R&D	---	---	50,000	+50,000	+50,000
National ignition facility, LLNL	---	---	330,000	+330,000	+330,000
Z Facility, SNL	---	---	61,600	+61,600	+61,600
Omega laser facility, URochester	---	---	68,000	+68,000	+68,000
Subtotal	544,934	418,927	509,600	-35,334	+90,673
Advanced simulation and computing:					
Advanced simulation and computing	721,244	656,401	676,401	-44,843	+20,000
Construction:					
18-D-670 Exascale class computer cooling equipment, LANL	22,000	24,000	24,000	+2,000	---
18-D-620 Exascale computing facility modernization project, LLNL	3,000	23,000	23,000	+20,000	---
Subtotal, Construction	25,000	47,000	47,000	+22,000	---
Subtotal, Advanced simulation, Computing and Construction	746,244	703,401	723,401	-22,843	+20,000
Advanced manufacturing development:					
Additive manfacturing	12,000	17,447	17,447	+5,447	---
Component manufacturing development	38,644	48,477	45,784	+7,140	-2,693

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Process technology development	34,896	30,914	30,914	-3,982	---
Subtotal	85,540	96,838	94,145	+8,605	-2,693
Subtotal, RDT&E	2,034,365	1,995,393	2,028,366	-5,999	+32,973
Infrastructure and Operations:					
Operations of facilities	848,470	891,000	880,000	+31,530	-11,000
Safety and environmental operations	110,000	115,000	110,000	---	-5,000
Maintenance and repair of facilities	515,138	365,000	515,138	---	+150,138
Recapitalization:					
Infrastructure and safety	482,661	431,631	482,661	---	+51,030
Capability based investments	130,000	109,057	130,000	---	+20,943
Subtotal, Recapitalization	612,661	540,688	612,661	---	+71,973
Construction:					
19-D-125 Plutonium infrastructure recapitalization, LANL	---	---	60,000	+60,000	+60,000
19-D-670 138kV Power Transmission System Replacement, NNSS	---	6,000	6,000	+6,000	---
18-D-680 Material staging facility, PX	5,200	---	---	-5,200	---
18-D-660 Fire station, Y-12	28,000	---	---	-28,000	---
18-D-650 Tritium production capability, SRS	---	27,000	2,000	+2,000	-25,000
18-D-690 Lithium production capability, Y-12	5,000	19,000	19,000	+14,000	---
17-D-640 U1a complex enhancements project, NNSA	22,100	53,000	53,000	+30,900	---
17-D-630 Electrical distribution system, LLNL	6,000	---	---	-6,000	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
16-D-515 Albuquerque Complex project	98,000	47,953	47,953	-50,047	---
15-D-613 Emergency Operations Center, Y-12	7,000	---	---	-7,000	---
07-D-220 Radioactive liquid waste treatment facility, LANL	2,100	---	---	-2,100	---
07-D-220-04 TRU liquid waste facility, LANL	17,895	---	---	-17,895	---
06-D-141 Uranium Processing Facility, Y-12	663,000	703,000	663,000	---	-40,000
Chemistry and metallurgy replacement (CMRR):					
04-D-125 Chemistry and metallurgy replacement project, LANL	---	235,095	---	---	-235,095
04-D-125-04 RLUOB equipment installation, phase 2	127,025	---	149,262	+22,237	+149,262
04-D-125-05 PF-4 equipment installation	50,214	---	70,580	+20,366	+70,580
Subtotal, CMRR	177,239	235,095	219,842	+42,603	-15,253
Subtotal, Construction	1,031,534	1,091,048	1,070,795	+39,261	-20,253
Subtotal, Infrastructure and Operations	3,117,803	3,002,736	3,188,594	+70,791	+185,858
Secure transportation asset:					
Operations and equipment	185,568	176,617	186,617	+1,049	+10,000
Program direction	105,600	102,022	102,022	-3,578	---
Subtotal, Secure transportation asset	291,168	278,639	288,639	-2,529	+10,000
Defense nuclear security:					
Defense nuclear security	686,977	690,638	699,638	+12,661	+9,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Security improvements program	30,000	---	30,000	---	+30,000
Construction:					
17-D-710 West end protected area reduction project, Y-12	53,600	---	---	-53,600	---
Subtotal, Defense nuclear security	770,577	690,638	729,638	-40,939	+39,000
Information technology and cyber security	186,728	221,175	221,175	+34,447	---
Legacy contractor pensions	232,050	162,292	162,292	-69,758	---
Subtotal, Weapons Activities	10,642,138	11,017,078	11,200,000	+557,862	+182,922
TOTAL, WEAPONS ACTIVITIES	10,642,138	11,017,078	11,200,000	+557,862	+182,922
DEFENSE NUCLEAR NONPROLIFERATION					
Global material security:					
International nuclear security	46,339	46,339	46,339	---	---
Domestic radiologic security	110,433	90,764	90,764	-19,669	---
International radiologic security	78,907	59,576	59,576	-19,331	---
Nuclear smuggling detection	154,429	140,429	140,429	-14,000	---
Subtotal, Global material security	390,108	337,108	337,108	-53,000	---
Material management and minimization:					
Conversion	---	98,300	---	---	-98,300

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Nuclear material removal	32,925	32,925	32,925	---	---
Material disposition	183,669	200,869	183,669	---	-17,200
Laboratory and partnership support	92,000	---	52,400	-39,600	+52,400
Subtotal, Material management and minimization	308,594	332,094	268,994	-39,600	-63,100
Nonproliferation and arms control	134,703	129,703	129,703	-5,000	---
Defense nuclear nonproliferation R&D:					
Proliferation detection	278,255	273,200	280,700	+2,445	+7,500
Nuclear detonation detection	195,749	182,895	182,895	-12,854	---
Nonproliferation fuels development	82,500	---	56,171	-26,329	+56,171
Subtotal, Defense nuclear nonproliferation R&D	556,504	456,095	519,766	-36,738	+63,671
Nonproliferation construction:					
99-D-143 Mixed Oxide (MOX) Fuel Fabrication Facility, SRS	335,000	220,000	335,000	---	+115,000
18-D-150 Surplus plutonium disposition project, SRS	---	59,000	---	---	-59,000
Subtotal, Nonproliferation construction	335,000	279,000	335,000	---	+56,000
Legacy contractor pensions	40,950	28,640	28,640	-12,310	---
Nuclear counterterrorism and incident response	282,360	319,185	319,185	+36,825	---
Use of prior-year balances	---	-19,000	-36,396	-36,396	-17,396
Subtotal, Defense Nuclear Nonproliferation	2,048,219	1,862,825	1,902,000	-146,219	+39,175

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Rescission	-49,000	---	---	+49,000	---
TOTAL, DEFENSE NUCLEAR NONPROLIFERATION	1,999,219	1,862,825	1,902,000	-97,219	+39,175
NAVAL REACTORS					
Naval reactors development	473,065	514,951	514,951	+41,886	---
Columbia-class reactor systems development	156,700	138,000	138,000	-18,700	---
S8G Prototype refueling	250,000	250,000	250,000	---	---
Naval reactors operations and infrastructure	466,884	525,764	525,764	+58,880	---
Construction:					
19-D-930 KS Overhead Piping	---	10,994	10,994	+10,994	---
17-D-911 BL Fire System Upgrade	---	13,200	13,200	+13,200	---
15-D-904 NRF Overpack Storage Expansion 3	13,700	---	---	-13,700	---
15-D-903 KL Fire System Upgrade	15,000	---	---	-15,000	---
14-D-901 Spent fuel handling recapitalization project, NRF	197,000	287,000	287,000	+90,000	---
Subtotal, Construction	225,700	311,194	311,194	+85,494	---
Program direction	47,651	48,709	48,709	+1,058	---
Subtotal, Naval Reactors	1,620,000	1,788,618	1,788,618	+168,618	---
TOTAL, NAVAL REACTORS	1,620,000	1,788,618	1,788,618	+168,618	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
FEDERAL SALARIES AND EXPENSES	407,595	422,529	422,529	+14,934	---
TOTAL, FEDERAL SALARIES AND EXPENSES	407,595	422,529	422,529	+14,934	---
TOTAL, NATIONAL NUCLEAR SECURITY ADMINISTRATION	14,668,952	15,091,050	15,313,147	+644,195	+222,097
DEFENSE ENVIRONMENTAL CLEANUP					
Closure sites administration	4,889	4,889	4,889	---	---
Richland:					
River corridor and other cleanup operations	183,692	89,577	183,692	---	+94,115
Central plateau remediation	662,879	562,473	638,379	-24,500	+75,906
RL Community and regulatory support	10,121	5,121	5,121	-5,000	---
RL Excess facilities D&D	---	---	35,000	+35,000	+35,000
Construction:					
18-D-404 WESF Modifications and capsule storage	6,500	1,000	1,000	-5,500	---
Subtotal, Richland	863,192	658,171	863,192	---	+205,021
Office of River Protection:					
Waste treatment and immobilization plant commissioning	8,000	15,000	15,000	+7,000	---
Rad liquid tank waste stabilization and disposition	719,000	677,460	719,000	---	+41,540
Construction:					
15-D-409 Low activity waste pretreatment system	93,000	56,053	56,053	-36,947	---
01-D-16 A-D Waste treatment and immobilization plant	---	675,000	---	---	-675,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
18-D-16 Waste treatment and immobilization plant - LBL/Direct feed LAW	630,000	---	655,000	+25,000	+655,000
01-D-16 D High-level waste facility	75,000	---	20,000	-55,000	+20,000
01-D-16 E Pretreatment facility	35,000	15,000	15,000	-20,000	---
Total, Construction	833,000	746,053	746,053	-86,947	---
Subtotal, Office of River Protection	1,560,000	1,438,513	1,480,053	-79,947	+41,540
Idaho National Laboratory:					
Idaho cleanup and waste disposition	420,000	346,026	420,000	---	+73,974
Idaho community and regulatory support	4,071	3,200	3,200	-871	---
ID Excess facilities D&D	10,000	---	10,000	---	+10,000
Total, Idaho National Laboratory	434,071	349,226	433,200	-871	+83,974
NNSA sites and Nevada offsites:					
Lawrence Livermore National Laboratory	1,175	1,704	1,704	+529	---
Separations Process Research Unit	4,800	15,000	15,000	+10,200	---
Nevada	60,136	60,136	60,136	---	---
Sandia National Laboratory	2,600	2,600	2,600	---	---
Los Alamos National Laboratory	220,000	191,629	198,000	-22,000	+6,371
LLNL Excess facilities D&D	100,000	---	---	-100,000	---
Total, NNSA sites and Nevada off-sites	388,711	271,069	277,440	-111,271	+6,371
Oak Ridge Reservation:					
OR Nuclear facility D&D	118,203	90,221	112,479	-5,724	+22,258
U233 disposition program	50,311	45,000	52,300	+1,989	+7,300

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
OR Cleanup and disposition	71,000	67,000	67,000	-4,000	---
Construction:					
17-D-401 On-site waste disposal facility	10,000	5,000	5,000	-5,000	---
14-D-403 Outfall 200 mercury treatment facility	17,100	11,274	21,079	+3,979	+9,805
Subtotal, Construction	27,100	16,274	26,079	-1,021	+9,805
OR Community & regulatory support	5,605	4,711	4,711	-894	---
OR Technology development and deployment	3,000	3,000	3,000	---	---
OR Excess facilities D&D	125,000	---	25,000	-100,000	+25,000
Total, Oak Ridge Reservation	400,219	226,206	290,569	-109,650	+64,363
Savannah River Site:					
SR Site risk management operations	482,960	517,436	495,960	+13,000	-21,476
SR Community and regulatory support	11,249	4,749	4,749	-6,500	---
SR Radioactive liquid tank waste stabilization and disposition	637,105	805,686	752,105	+115,000	-53,581
Construction:					
19-D-701 SR Security system replacement	---	---	10,000	+10,000	+10,000
18-D-402 Saltstone disposal unit #8/9	500	37,450	7,577	+7,077	-29,873
18-D-402 Emergency Operations Center Replacement, SR	500	1,259	---	-500	-1,259
17-D-402 Saltstone disposal Unit #7, SRS	30,000	41,243	41,243	+11,243	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
05-D-405 Salt waste processing facility, SRS....	150,000	65,000	65,000	-85,000	---
Subtotal, Construction.....	181,000	144,952	123,820	-57,180	-21,132
Total, Savannah River Site.....	1,312,314	1,472,823	1,376,634	+64,320	-96,189
Waste Isolation Pilot Plant:					
Waste Isolation Pilot Plant.....	270,971	311,695	311,695	+40,724	---
Construction:					
15-D-411 Safety significant confinement ventilation system, WIPP.....	86,000	84,212	84,212	-1,788	---
15-D-412 Exhaust shaft, WIPP.....	19,600	1,000	1,000	-18,600	---
Total, Waste isolation pilot plant.....	376,571	396,907	396,907	+20,336	---
Program direction.....	300,000	300,000	295,000	-5,000	-5,000
Program support.....	14,979	12,979	12,979	-2,000	---
Safeguards and Security.....	298,102	324,434	304,434	+6,332	-20,000
Technology development.....	35,000	25,000	31,500	-3,500	+6,500
Excess facilities.....	---	150,000	---	---	-150,000
Use of prior year balances.....	---	---	-7,577	-7,577	-7,577
Subtotal, Defense Environmental Cleanup.....	5,988,048	5,630,217	5,759,220	-228,828	+129,003
TOTAL, DEFENSE ENVIRONMENTAL CLEAN UP.....	5,988,048	5,630,217	5,759,220	-228,828	+129,003

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
OTHER DEFENSE ACTIVITIES					
Environment, health, safety and security:					
Environment, health, safety and security	130,693	135,194	135,194	+4,501	---
Program direction	68,253	70,653	70,653	+2,400	---
Subtotal, Environment, Health, safety and security	198,946	205,847	205,847	+6,901	---
Independent enterprise assessments:					
Independent enterprise assessments	24,068	24,068	24,068	---	---
Program direction	50,863	52,702	52,702	+1,839	---
Subtotal, Independent enterprise assessments	74,931	76,770	76,770	+1,839	---
Specialized security activities	262,912	254,378	271,378	+8,466	+17,000
Office of Legacy Management:					
Legacy management	137,674	140,575	140,575	+2,901	---
Program direction	16,932	18,302	18,302	+1,370	---
Subtotal, Office of Legacy Management	154,606	158,877	158,877	+4,271	---
Defense related administrative support	143,000	153,689	153,689	+10,689	---
Office of hearings and appeals	5,605	5,739	5,739	+134	---
Use of prior year balances	---	-2,000	-2,000	-2,000	---
TOTAL, OTHER DEFENSE ACTIVITIES	840,000	853,300	870,300	+30,300	+17,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
DEFENSE NUCLEAR WASTE DISPOSAL	---	30,000	30,000	+30,000	---
TOTAL, ATOMIC ENERGY DEFENSE ACTIVITIES	21,497,000	21,604,567	21,972,667	+475,667	+368,100
POWER MARKETING ADMINISTRATIONS (1)					
SOUTHEASTERN POWER ADMINISTRATION					
Operation and maintenance:					
Purchase power and wheeling	66,070	73,184	69,184	+3,114	-4,000
Program direction	6,379	6,500	6,500	+121	---
Subtotal, Operation and maintenance	72,449	79,684	75,684	+3,235	-4,000
Less alternative financing (PPW)	-15,070	-13,824	-13,824	+1,246	---
Offsetting collections (for PPW)	-51,000	-59,360	-55,360	-4,360	+4,000
Offsetting collections (PD)	-6,379	-6,500	-6,500	-121	---
TOTAL, SOUTHEASTERN POWER ADMINISTRATION	---	---	---	---	---
SOUTHWESTERN POWER ADMINISTRATION					
Operation and maintenance:					
Operating expenses	16,680	17,006	17,006	+326	---
Purchase power and wheeling	50,000	93,000	20,000	-30,000	-73,000
Program direction	31,335	32,995	32,995	+1,660	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Construction	14,932	16,875	16,875	+1,943	---
Subtotal, Operation and maintenance	112,947	159,876	86,876	-26,071	-73,000
Less alternative financing (for O&M)	-9,042	-8,894	-8,894	+148	---
Less alternative financing (for PPW)	-10,000	-10,000	-10,000	---	---
Less alternative financing (Const)	-9,417	-12,180	-12,180	-2,763	---
Offsetting collections (PD)	-16,035	-29,695	-29,695	-13,660	---
Offsetting collections (for O&M)	-2,853	-5,707	-5,707	-2,854	---
Offsetting collections (for PPW)	-40,000	-83,000	-10,000	+30,000	+73,000
Use of prior year balances	-14,200	---	---	+14,200	---
TOTAL, SOUTHWESTERN POWER ADMINISTRATION	11,400	10,400	10,400	-1,000	---
WESTERN AREA POWER ADMINISTRATION					
Operation and maintenance:					
Construction and rehabilitation	52,272	32,632	32,632	-19,640	---
Operation and maintenance	72,407	77,056	77,056	+4,649	---
Purchase power and wheeling	498,072	567,362	441,362	-56,710	-126,000
Program direction	235,722	238,483	238,483	+2,761	---
Subtotal, Operation and maintenance	858,473	915,533	789,533	-68,940	-126,000
Less alternative financing (for O&M)	-5,068	-7,758	-7,758	-2,690	---
Less alternative financing (for Construction)	-40,500	-27,077	-27,077	+13,423	---
Less alternative financing (for Program Dir.)	-38,398	-39,136	-39,136	-738	---
Less alternative financing (for PPW)	-289,072	-260,954	-260,954	+28,118	---
Offsetting collections (for program direction)	-116,050	-150,761	-150,761	-34,711	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Offsetting collections (for O&M)	-13,854	-25,009	-25,009	-11,155	---
Offsetting collections (P.L. 108-477, P.L. 109-103)	-209,000	-306,408	-180,408	+28,592	+126,000
Offsetting collections (P.L. 98-381)	-9,306	-9,058	-9,058	+248	---
Use of prior-year balances	-43,853	---	---	+43,853	---
TOTAL, WESTERN AREA POWER ADMINISTRATION	93,372	89,372	89,372	-4,000	---
FALCON AND AMISTAD OPERATING AND MAINTENANCE FUND					
Operation and maintenance	5,048	5,329	5,329	+281	---
Offsetting collections	-3,948	-4,979	-4,979	-1,031	---
Less alternative financing	-872	-122	-122	+750	---
TOTAL, FALCON AND AMISTAD O&M FUND	228	228	228	---	---
TOTAL, POWER MARKETING ADMINISTRATIONS	105,000	100,000	100,000	-5,000	---
FEDERAL ENERGY REGULATORY COMMISSION					
Federal Energy Regulatory Commission	367,600	369,900	369,900	+2,300	---
FERC revenues	-367,600	-369,900	-369,900	-2,300	---
General Provisions					
Title III Rescissions:					
Northeast gasoline supply reserve sale	---	-71,000	---	---	+71,000
Strategic Petroleum Reserve crude oil sale	---	-15,000	---	---	+15,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Strategic Petroleum Reserve use of sale proceeds	---	15,000	---	---	-15,000
Total, General Provisions	---	-71,000	---	---	+71,000
GRAND TOTAL, DEPARTMENT OF ENERGY	34,520,049	30,146,071	35,494,251	+974,202	+5,348,180
(Total amount appropriated)	(34,569,049)	(30,394,571)	(35,494,251)	(+925,202)	(+5,099,680)
(Rescissions)	(-49,000)	(-248,500)	---	(+49,000)	(+248,500)
SUMMARY OF ACCOUNTS					
Energy efficiency and renewable energy	2,321,778	695,610	2,078,640	-243,138	+1,383,030
Electricity delivery and energy reliability	248,329	---	---	-248,329	---
Cybersecurity, Energy Security, and Emergency Response	---	95,800	146,000	+146,000	+50,200
Electricity delivery	---	61,309	175,000	+175,000	+113,691
Nuclear energy	1,205,056	757,090	1,346,090	+141,034	+589,000
Fossil Energy Research and Development	726,817	502,070	785,000	+58,183	+282,930
Naval Petroleum & Oil Shale Reserves	4,900	10,000	10,000	+5,100	---
Strategic petroleum reserve	252,000	-124,895	252,000	---	+376,895
SPR Petroleum Account	8,400	---	10,000	+1,600	+10,000
Northeast home heating oil reserve	6,500	10,000	10,000	+3,500	---
Energy Information Administration	125,000	115,035	125,000	---	+9,965
Non-Defense Environmental Cleanup	298,400	218,400	240,000	-58,400	+21,600
Uranium enrichment D&D fund	840,000	752,749	870,000	+30,000	+117,251
Science	6,259,903	5,390,972	6,600,000	+340,097	+1,209,028
Nuclear Waste Disposal	---	90,000	190,000	+190,000	+100,000

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Advanced Research Projects Agency-Energy	353,314	---	325,000	-28,314	+325,000
Title 17 Innovative technology loan guarantee program	23,000	-245,000	17,000	-6,000	+262,000
Advanced technology vehicles manufacturing loan pgm	5,000	1,000	5,000	---	+4,000
Tribal Energy Loan Guarantee program	1,000	-8,500	1,000	---	+9,500
Departmental administration	189,652	139,534	184,524	-5,128	+44,990
Office of the Inspector General	49,000	51,330	51,330	+2,330	---
Atomic energy defense activities:					
National Nuclear Security Administration:					
Weapons activities	10,642,138	11,017,078	11,200,000	+557,862	+182,922
Defense nuclear nonproliferation	1,999,219	1,862,825	1,902,000	-97,219	+39,175
Naval reactors	1,620,000	1,788,618	1,788,618	+168,618	---
Federal Salaries and Expenses	407,595	422,529	422,529	+14,934	---
Subtotal, National Nuclear Security Admin	14,668,952	15,091,050	15,313,147	+644,195	+222,097
Defense environmental cleanup	5,988,048	5,630,217	5,759,220	-228,828	+129,003
Other defense activities	840,000	853,300	870,300	+30,300	+17,000
Defense nuclear waste disposal	---	30,000	30,000	+30,000	---
Total, Atomic Energy Defense Activities	21,497,000	21,604,567	21,972,667	+475,667	+368,100
Power marketing administrations (1):					
Southeastern Power Administration	---	---	---	---	---
Southwestern Power Administration	11,400	10,400	10,400	-1,000	---
Western Area Power Administration	93,372	89,372	89,372	-4,000	---
Falcon and Amistad operating and maintenance fund	228	228	228	---	---
Total, Power Marketing Administrations	105,000	100,000	100,000	-5,000	---

DEPARTMENT OF ENERGY
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Federal Energy Regulatory Commission:					
Salaries and expenses	367,600	369,900	369,900	+2,300	---
Revenues	-367,600	-369,900	-369,900	-2,300	---
General Provisions	---	-71,000	---	---	+71,000
Total Summary of Accounts, Department of Energy...	34,520,049	30,146,071	35,494,251	+974,202	+5,348,180

1/ Totals include alternative financing costs, reimbursable agreement funding, and power purchase and wheeling expenditures. Offsetting collection totals reflect funds collected for annual expenses, including power purchase and wheeling

GENERAL PROVISIONS—DEPARTMENT OF ENERGY

(INCLUDING TRANSFERS OF FUNDS)

The bill includes a provision that prohibits the use of funds provided in this title to initiate requests for proposals, other solicitations or arrangements for new programs or activities that have not yet been approved and funded by the Congress; requires notification or a report for certain funding actions; prohibits funds to be used for certain multi-year "Energy Programs" activities without notification; prohibits the obligation or expenditure of funds provided in this title through a reprogramming of funds except in certain circumstances; and permits the transfer and merger of unexpended balances of prior appropriations with appropriation accounts established in this bill.

The bill continues a provision that authorizes intelligence activities of the Department of Energy for purposes of section 504 of the National Security Act of 1947.

The bill continues a provision that prohibits the use of funds in this title for capital construction of high hazard nuclear facilities, unless certain independent oversight is conducted.

The bill continues a provision that prohibits the use of funds provided in this title to approve critical decision-2 or critical decision-3 for certain construction projects, unless a separate independent cost estimate has been developed for that critical decision.

The bill includes a provision limiting the amount of funds to be used for the working capital fund.

The bill continues a provision restricting certain activities in the Russian Federation.

The bill continues a provision regarding management of the Strategic Petroleum Reserve.

The bill includes a provision restricting the use of funds for the Mixed Oxide Fuel Fabrication Facility Project.

The bill includes a provision regarding authority to release refined petroleum product from the Strategic Petroleum Reserve (SPR). Instead of engaging the Congress on developing appropriate legislation for a regional refined petroleum product reserve, the previous Administration chose to establish the Northeast Gasoline Supply Reserve (NGSR) under the existing authorities of the SPR. As such, the NGSR is subject to national impact thresholds for releases, making it operationally ineffective as a regional product reserve. The Committee on Energy and Commerce of the House of Representatives is evaluating the proper configuration of the SPR in light of current circumstances. This evaluation will be informed, in part, by an assessment of the SPR being undertaken by the Government Accountability Office. While this work is ongoing, this bill includes temporary authority to ensure the operational effectiveness of the NGSR.

TITLE IV—INDEPENDENT AGENCIES

APPALACHIAN REGIONAL COMMISSION

Appropriation, 2018	$155,000,000
Budget estimate, 2019	152,000,000
Recommended, 2019	155,000,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	+3,000,000

The Appalachian Regional Commission (ARC) is a regional economic development agency established in 1965 by the Appalachian Regional Development Act (P.L. 89–4). It is composed of the governors of the 13 Appalachian States and a federal co-chair appointed by the President. Each year, the ARC provides funding for several hundred projects in the Appalachian Region in areas such as business development, education and job training, telecommunications, infrastructure, community development, housing, and transportation.

To diversify and enhance regional business development, $10,000,000 is provided to continue the program of high-speed broadband deployment in distressed counties within the Central Appalachian region that have been most negatively impacted by the downturn in the coal industry. This funding shall be in addition to the 30 percent directed to distressed counties.

The Committee is concerned that many rural areas in the Central Appalachian region continue to face a variety of significant and detrimental health issues. The Committee directs the ARC to engage in a partnership with a rural consortium that includes academic entities, rural health care providers, and economic development entities in order to develop information and data on overall agricultural and human health issues, how economic distress can be overcome through addressing these issues, and strategies for implementing solutions. The ARC is directed to provide to the Committees on Appropriations of both Houses of Congress not later than one year after the enactment of this Act a report describing activities in support of this effort.

Within available funds, the Committee directs $50,000,000 for activities in support of the POWER+ Plan.

The ARC targets 50 percent of its funds to distressed counties or distressed areas in the Appalachian region. The Committee continues to believe this should be the primary focus of the ARC.

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

SALARIES AND EXPENSES

Appropriation, 2018	$31,000,000
Budget estimate, 2019	31,243,000
Recommended, 2019	31,243,000
Comparison:	
Appropriation, 2018	+243,000
Budget estimate, 2019	– – –

The Defense Nuclear Facilities Safety Board (DNFSB) was created by the fiscal year 1989 National Defense Authorization Act. The Board, composed of five members appointed by the President, provides advice and recommendations to the Secretary of Energy regarding public health and safety issues at the Department's de-

fense nuclear facilities. The DNFSB is responsible for reviewing and evaluating the content and implementation of the standards relating to the design, construction, operation, and decommissioning of the Department of Energy's defense nuclear facilities.

DELTA REGIONAL AUTHORITY

SALARIES AND EXPENSES

Appropriation, 2018	$25,000,000
Budget estimate, 2019	2,500,000
Recommended, 2019	15,000,000
Comparison:	
Appropriation, 2018	−10,000,000
Budget estimate, 2019	+12,500,000

The Delta Regional Authority (DRA) is a federal-state partnership established by the Delta Regional Authority Act of 2000 (P.L. 106–554) that serves a 252-county/parish area in an eight-state region near the mouth of the Mississippi River. Led by a federal cochair and the governors of each participating state, the DRA is designed to remedy severe and chronic economic distress by stimulating economic development and fostering partnerships that will have a positive impact on the region's economy. The DRA seeks to help local communities leverage other federal and state programs that are focused on basic infrastructure development, transportation improvements, business development, and job training services. Under federal law, at least 75 percent of appropriated funds must be invested in distressed counties and parishes, with 50 percent of the funds for transportation and basic infrastructure improvements.

The budget request proposed to eliminate funding for the DRA. The recommendation does not include funds to shut down the DRA.

DENALI COMMISSION

Appropriation, 2018	$30,000,000
Budget estimate, 2019	7,300,000
Recommended, 2019	15,000,000
Comparison:	
Appropriation, 2018	−15,000,000
Budget estimate, 2019	+7,700,000

The Denali Commission is a regional development agency established by the Denali Commission Act of 1998 (P.L. 105–277) to provide critical utilities, infrastructure, health services, and economic support throughout Alaska. To ensure that local communities have a stake in Commission-funded projects, local cost-share requirements for construction and equipment have been established for both distressed and non-distressed communities.

The budget request proposed to eliminate funding for the Denali Commission. The recommendation does not include funds to shut down the Denali Commission.

NORTHERN BORDER REGIONAL COMMISSION

Appropriation, 2018	$15,000,000
Budget estimate, 2019	850,000
Recommended, 2019	12,000,000
Comparison:	
Appropriation, 2018	−3,000,000
Budget estimate, 2019	+11,150,000

The Food, Conservation, and Energy Act of 2008 (P.L.110–234) authorized the establishment of the Northern Border Regional Commission as a federal-state partnership intended to address the economic development needs of distressed portions of the four-state region of Maine, New Hampshire, Vermont, and New York.

The budget request proposed to eliminate funding for the Northern Border Regional Commission. The recommendation does not include funds to shut down the Northern Border Regional Commission.

SOUTHEAST CRESCENT REGIONAL COMMISSION

Appropriation, 2018	$250,000
Budget estimate, 2019	– – –
Recommended, 2019	250,000
Comparison:	
Appropriation, 2018	– – –
Budget estimate, 2019	+250,000

The Food, Conservation, and Energy Act of 2008 (P.L. 110–234) authorized the establishment of the Southeast Crescent Regional Commission as a federal-state partnership intended to address the economic development needs of distressed portions of the seven-state region in the southeastern United States not already served by a regional development agency.

NUCLEAR REGULATORY COMMISSION

SALARIES AND EXPENSES

Appropriation, 2018	$909,137,000
Budget estimate, 2019	958,050,000
Recommended, 2019	953,050,000
Comparison:	
Appropriation, 2018	+43,913,000
Budget estimate, 2019	−5,000,000

REVENUES

Appropriation, 2018	$ −779,768,000
Budget estimate, 2019	−805,019,000
Recommended, 2019	−763,640,000
Comparison:	
Appropriation, 2018	+16,128,000
Budget estimate, 2019	+41,379,000

NET APPROPRIATION

Appropriation, 2018	$129,301,000
Budget estimate, 2019	153,031,000
Recommended, 2019	189,410,000
Comparison:	
Appropriation, 2018	+60,109,000
Budget estimate, 2019	+36,379,000

The Committee recommendation for the Nuclear Regulatory Commission (NRC) provides the following amounts:

(Dollars in thousands)

Account	FY 2018 enacted	FY 2019 request	Cmte. rec.
Nuclear Reactor Safety	$466,655	$474,767	$474,767
Nuclear Materials and Waste Safety	113,145	110,609	110,609
Decommissioning and Low-Level Waste	27,980	25,393	25,393
Integrated University Program	15,000	0	15,000

(Dollars in thousands)

Account	FY 2018 enacted	FY 2019 request	Cmte. rec.
Yucca licensing	0	47,700	47,700
Corporate Support	301,357	299,581	299,581
TOTAL, Program Level	924,137	958,050	973,050
Savings and Carryover	-15,000	– – –	−20,000
TOTAL	909,137	958,050	953,050

The recommendation includes $20,000,000 in savings for fiscal year 2019 that was not included in the budget request. The Committee directs the Commission to apply these savings in a manner that continues to ensure the protection of public health and safety and maintains the effectiveness of the current inspection program. Since the Commission has already collected fees corresponding to these activities in prior years, these funds are not included within the fee base calculation for determining authorized revenues and does not provide authority to collect additional offsetting receipts for their use.

Within available funds, not more than $9,500,000 is included for salaries, travel, and other support costs for the Office of the Commission. These salaries and expenses shall include only salaries and benefit and travel costs, and not general and administrative and infrastructure costs. The Committee directs that these funds are to be jointly managed by the Commissioners, and the bill requires that the use and expenditure of these salaries and expenses shall only be by a majority vote of the Commission. The NRC shall continue to include a breakout and explanation of the Commission salaries and expenses in its annual budget requests. If the Commission wishes to change the composition of the funds requested for its salaries and expenses in future years, it must do so in an annual budget request or through a reprogramming.

The recommendation directs $47,700,000 to continue adjudication of the Yucca Mountain license application.

Integrated University Program.—The Committee recommendation includes $15,000,000 to provide financial support for the university education programs, as the Commission continues to be reliant on a pipeline of highly trained nuclear engineers and scientists and benefits substantially from this university program. Of this amount, $5,000,000 is to be used for grants to support research projects that do not align with programmatic missions, but are critical to maintaining the discipline of nuclear science and engineering.

Transformation Initiative.—The Committee commends the NRC for launching its Transformation Initiative in January. This Initiative is intended to enhance the NRC's ability to evaluate and regulate new and novel technologies—such as accident tolerant fuels, new materials and new manufacturing approaches, big data, digital instrumentation and controls, and small modular and advanced reactor designs—that will challenge the NRC's current regulatory framework. As such, the NRC's success in this initiative will be essential to establishing a pathway for the efficient regulation of future nuclear technologies in the United States. The Committee expects the NRC budget request for fiscal year 2020 to include con-

crete proposals developed under the Initiative and to reflect savings achieved from their implementation.

Accident Tolerant Fuel.—Development and deployment of accident tolerant fuel (ATF) holds great promise in improving both the safety and economics of the nation's existing reactor fleet. To develop an efficient framework for the qualification and regulation of these new fuels in support of their deployment by the mid-2020s, the NRC must ensure that its work is complementary to and not unnecessarily duplicative of the efforts of the Department of Energy, National Laboratories, and fuel developers. Not later than 180 days after the enactment of this Act, the NRC shall submit to the Committees on Appropriations of both Houses of Congress a plan describing the NRC's activities with respect to the testing of materials, the development of consensus standards, and the validation of computer codes and how these activities will be integrated with the work of external organizations. The plan shall describe how the Advanced Test Reactor, the Transient Reactor Test Facility, and the Halden Reactor are necessary to support these efforts.

Digital Instrumentation and Control.—The future of commercial nuclear power depends, in part, on the NRC's ability to keep pace with innovation and technological developments. Although the NRC has demonstrated its capacity to adapt to new technology and innovation in its decision to issue a construction permit for a first-of-a-kind medical isotope production facility, this adaptive thinking is not evident in the NRC's work on the licensing of digital systems for nuclear safety-related applications, where the agency remains mired in unresolved complexity while the obsolesce issues for the U.S. nuclear fleet grow more and more urgent. Digital systems serve vital safety functions throughout the aviation and military sectors. Not later than 90 days after the enactment of this Act, the NRC shall provide to the Committees on Appropriations of both Houses of Congress a report describing the approaches to permitting the use of digital instrumentation and control in safety applications outside of nuclear, discussing whether these approaches would be acceptable in nuclear applications, and if not, explaining why not.

Budget Execution Plan.—The Commission shall provide a specific budget execution plan to the Committees on Appropriations of both Houses of Congress not later than 30 days after the enactment of this Act. The plan shall include details at the product line level within each of the control points.

Rulemaking.—The Commission shall list all rulemaking activities planned, to include their priority, schedule, and actions taken to adhere to the backfit rule, in the annual budget request and the semi-annual report to Congress on licensing and regulatory activities.

Reporting Requirements.—The Committee directs the Commission to continue to provide quarterly reports on licensing goals and right-sizing commitments, as described in the explanatory statement for P.L. 114–113.

Organization Optimization.—In fiscal year 2018, the Commission was directed to submit a report on actions taken to improve the fidelity of the agency estimates of necessary FTE levels and to optimize the structure of the agency over the next five years. The Com-

mittee reaffirms this direction and may have additional guidance after review of the report.

OFFICE OF INSPECTOR GENERAL

GROSS APPROPRIATION

Appropriation, 2018	$12,859,000
Budget estimate, 2019	12,609,000
Recommended, 2019	12,609,000
Comparison:	
Appropriation, 2018	−250,000
Budget estimate, 2019	− − −

REVENUES

Appropriation, 2018	$ −10,555,000
Budget estimate, 2019	−10,355,000
Recommended, 2019	−10,355,000
Comparison:	
Appropriation, 2018	+200,000
Budget estimate, 2019	− − −

NET APPROPRIATION

Appropriation, 2018	$2,304,000
Budget estimate, 2019	2,254,000
Recommended, 2019	2,254,000
Comparison:	
Appropriation, 2018	−50,000
Budget estimate, 2019	− − −

The Committee has included $1,103,000 within this appropriation for the Defense Nuclear Facilities Safety Board for Inspector General services from the Nuclear Regulatory Commission Inspector General.

NUCLEAR WASTE TECHNICAL REVIEW BOARD

SALARIES AND EXPENSES

Appropriation, 2018	$3,600,000
Budget estimate, 2019	3,600,000
Recommended, 2019	3,600,000
Comparison:	
Appropriation, 2018	− − −
Budget estimate, 2019	− − −

The Nuclear Waste Technical Review Board (NWTRB) was established by the 1987 amendments to the Nuclear Waste Policy Act of 1982 to provide independent technical oversight of the Department of Energy's nuclear waste disposal program. The Committee expects the NWTRB to continue its active engagement with the Department and the Nuclear Regulatory Commission on issues involving nuclear waste disposal.

GENERAL PROVISIONS—INDEPENDENT AGENCIES

The bill continues a provision requiring the Nuclear Regulatory Commission to fully comply with Congressional requests for information.

The bill continues a provision regarding the circumstances in which the Nuclear Regulatory Commission may reprogram funds.

TITLE V—GENERAL PROVISIONS

The bill continues a provision that prohibits the use of funds provided in this Act to, in any way, directly or indirectly influence congressional action on any legislation or appropriation matters pending before the Congress, other than to communicate to Members of Congress as described in section 1913 of Title 18, United States Code.

The bill continues a provision consolidating the transfer authorities into and out of accounts funded by this Act. No additional transfer authority is implied or conveyed by this provision. For the purposes of this provision, the term "transfer" shall mean the shifting of all or part of the budget authority in one account to another.

The bill continues a provision prohibiting funds in contravention of E.O. 12898 of February 11, 1994, regarding environmental justice.

The bill includes a provision prohibiting funds in this Act from being used to maintain or establish computer networks unless such networks block the viewing, downloading, or exchange of pornography.

The bill includes a provision prohibiting the use of funds to further implementation of components of the National Ocean Policy developed under E.O. 13547.

The bill includes a provision prohibiting the use of funds to operate the Federal Columbia River Power System in a manner inconsistent with the Army Corps of Engineers' 2017 Fish Operations Plan.

The bill includes a provision prohibiting the use of funds for the removal of any federally-owned or operated dam unless the removal was previously authorized by Congress.

The bill continues a provision prohibiting funds in this Act from being used to close the Yucca Mountain license application process or for actions that would remove the possibility that Yucca Mountain might be an option in the future.

The bill includes a provision regarding the spending reduction account.

HOUSE OF REPRESENTATIVES REPORT REQUIREMENTS

The following items are included in accordance with various requirements of the Rules of the House of Representatives.

STATEMENT OF GENERAL PERFORMANCE GOALS AND OBJECTIVES

Pursuant to clause 3(c)(4) of rule XIII of the Rules of the House of Representatives, the following is a statement of general performance goals and objectives for which this measure authorizes funding:

The Committee on Appropriations considers program performance, including a program's success in developing and attaining outcome-related goals and objectives, in developing funding recommendations.

TRANSFER OF FUNDS

Pursuant to clause 3(f)(2) of rule XIII of the Rules of the House of Representatives, the following is submitted describing the transfer of funds provided in the accompanying bill.

TITLE I—CORPS OF ENGINEERS—CIVIL

Under section 103, "General Provisions, Corps of Engineers—Civil", $5,400,000 under the heading "Operation and Maintenance" may be transferred to the Fish and Wildlife Service to mitigate for fisheries lost due to Corps projects.

TITLE II—BUREAU OF RECLAMATION

Under "Water and Related Resources", $67,393,000 is available for transfer to the Upper Colorado River Basin Fund and $5,551,000 is available for transfer to the Lower Colorado River Basin Development Fund. Such funds as may be necessary may be advanced to the Colorado River Dam Fund. The amounts of transfers may be increased or decreased within the overall appropriation under the heading.

Under "California Bay Delta Restoration", such sums as may be necessary to carry out authorized purposes may be transferred to appropriate accounts of other participating federal agencies.

TITLE III—DEPARTMENT OF ENERGY

Under "Atomic Energy Defense Activities—National Nuclear Security Administration—Naval Reactors", $85,500,000 shall be transferred to "Department of Energy—Energy Programs—Nuclear Energy" for the Advanced Test Reactor.

Under section 301, "General Provisions—Department of Energy", unexpended balances of prior appropriations provided for activities in this Act may be transferred to appropriation accounts for such activities established pursuant to this title. Balances so transferred may be merged with funds in the applicable established accounts and thereafter may be accounted for as one fund for the same time period as originally enacted.

DISCLOSURE OF EARMARKS AND CONGRESSIONALLY DIRECTED SPENDING ITEMS

Neither the bill nor the report contains any congressional earmarks, limited tax benefits, or limited tariff benefits as defined in clause 9 of rule XXI.

CHANGES IN THE APPLICATION OF EXISTING LAW

Pursuant to clause 3(f)(1)(A) of rule XIII of the Rules of the House of Representatives, the following statements are submitted describing the effect of provisions in the accompanying bill which directly or indirectly change the application of existing law.

TITLE I—CORPS OF ENGINEERS

Language has been included under Corps of Engineers, Investigations, providing for detailed studies and plans and specifications of projects prior to construction.

Language has been included under Corps of Engineers, Investigations, providing for a limited number of new starts.

Language has been included under Corps of Engineers, Construction, stating that funds can be used for the construction of river and harbor, flood and storm damage reduction, shore protection, aquatic ecosystem restoration, and related projects authorized by law, and for detailed studies and plans and specifications of such projects.

Language has been included under Corps of Engineers, Construction, permitting the use of funds from the Inland Waterways Trust Fund and the Harbor Maintenance Trust Fund.

Language has been included under Corps of Engineers, Construction, providing for a limited number of new starts.

Language has been included under Corps of Engineers, Mississippi River and Tributaries, permitting the use of funds from the Harbor Maintenance Trust Fund.

Language has been included under the Corps of Engineers, Operation and Maintenance, stating that funds can be used for: the operation, maintenance, and care of existing river and harbor, flood and storm damage reduction, aquatic ecosystem restoration, and related projects authorized by law; providing security for infrastructure owned or operated by the Corps, including administrative buildings and laboratories; maintaining authorized harbor channels provided by a State, municipality, or other public agency that serve essential navigation needs of general commerce; surveying and charting northern and northwestern lakes and connecting waters; clearing and straightening channels; and removing obstructions to navigation.

Language has been included under Corps of Engineers, Operation and Maintenance, permitting the use of funds from the Harbor Maintenance Trust Fund; providing for the use of funds from a special account for resource protection, research, interpretation, and maintenance activities at outdoor recreation areas; and allowing use of funds to cover the cost of operation and maintenance of dredged material disposal facilities for which fees have been collected.

Language has been included under Corps of Engineers, Operation and Maintenance, providing that one percent of the total amount of funds provided for each of the programs, projects, or activities funded under the Operation and Maintenance heading shall not be allocated to a field operating activity until the fourth quarter of the fiscal year and permitting the use of these funds for emergency activities as determined by the Chief of Engineers to be necessary and appropriate.

Language has been included under Corps of Engineers, Expenses, regarding support of the Humphreys Engineer Support Center Activity, the Institute for Water Resources, the United States Army Engineer Research and Development Center, and the United States Army Corps of Engineers Finance Center.

Language has been included under Corps of Engineers, Expenses, providing that funds are available for official reception and representation expenses.

Language has been included under Corps of Engineers, Expenses, prohibiting the use of other funds in Title I of this Act for the activities funded in Expenses.

Language has been included under Corps of Engineers, Expenses, permitting any Flood Control and Coastal Emergency appropriation to be used to fund the supervision and general administration of emergency operations, repairs, and other activities in response to any flood, hurricane or other natural disaster.

Language has been included to provide for funding for the Office of the Assistant Secretary of the Army for Civil Works.

Language has been included under Corps of Engineers, General Provisions, section 101, providing that none of the funds may be available for obligation or expenditure through a reprogramming of funds except in certain circumstances.

Language has been included under Corps of Engineers, General Provisions, section 102, prohibiting the execution of any contract for a program, project or activity which commits funds in excess of the amount appropriated (to include funds reprogrammed under section 101) that remain unobligated.

Language has been included under Corps of Engineers, General Provisions, section 103, providing for transfer authority to the Fish and Wildlife Service for mitigation for lost fisheries.

Language has been included under Corps of Engineers, General Provisions, section 104, prohibiting certain dredged material disposal activities.

Language has been included under Corps of Engineers, General Provisions, section 105, prohibiting any acquisition that is not consistent with a certain federal regulation.

Language has been included under Corps of Engineers, General Provisions, section 106, prohibiting certain activities at a Corps of Engineers project.

Language has been included under Corps of Engineers, General Provisions, section 107, prohibiting requirement of a permit for the discharge of dredged or fill material under the Federal Water Pollution Control Act for certain activities.

Language has been included under Corps of Engineers, General Provisions, section 108, repealing a certain rule under the Federal Water Pollution Control Act.

Language has been included under Corps of Engineers, General Provisions, section 109, allowing the possession of firearms at water resources development projects under certain circumstances.

TITLE II—DEPARTMENT OF THE INTERIOR

Language has been included under Bureau of Reclamation, Water and Related Resources, providing that funds are available for fulfilling federal responsibilities to Native Americans and for grants to and cooperative agreements with State and local governments and Indian tribes.

Language has been included under Bureau of Reclamation, Water and Related Resources, allowing fund transfers within the overall appropriation to the Upper Colorado River Basin Fund and the Lower Colorado River Basin Development Fund; providing that such sums as necessary may be advanced to the Colorado River Dam Fund; and, transfers may be increased or decreased within the overall appropriation.

Language has been included under Bureau of Reclamation, Water and Related Resources, providing for funds to be derived from the Reclamation Fund or the special fee account established

by 16 U.S.C. 6806; that funds contributed under 43 U.S.C. 395 by non-federal entities shall be available for expenditure; and that funds advanced under 43 U.S.C. 397a are to be credited to the Water and Related Resources account and available for expenditure.

Language has been included under Bureau of Reclamation, Water and Related Resources, providing that funds may be used for high priority projects carried out by the Youth Conservation Corps, as authorized by 16 U.S.C. 1706.

Language has been included under Bureau of Reclamation, Central Valley Project Restoration Fund, directing the Bureau of Reclamation to assess and collect the full amount of additional mitigation and restoration payments authorized by section 3407(d) of Public Law 102–575.

Language has been included under Bureau of Reclamation, Central Valley Project Restoration Fund, providing that none of the funds under the heading may be used for the acquisition or lease of water for in-stream purposes if the water is already committed to in-stream purposes by a court order adopted by consent or decree.

Language has been included under Bureau of Reclamation, California Bay-Delta Restoration, permitting the transfer of funds to appropriate accounts of other participating federal agencies to carry out authorized programs; allowing funds made available under this heading to be used for the federal share of the costs of the CALFED Program management; and requiring that CALFED implementation be carried out with clear performance measures demonstrating concurrent progress in achieving the goals and objectives of the program.

Language has been included under Bureau of Reclamation, Policy and Administration, providing that funds are to be derived from the Reclamation Fund and prohibiting the use of any other appropriation in the Act for activities budgeted as policy and administration expenses.

Language has been included under Bureau of Reclamation, Administrative Provision, providing for the purchase of motor vehicles for replacement.

Language has been included under General Provisions, Department of the Interior, section 201, providing that none of the funds may be available for obligation or expenditure through a reprogramming of funds except in certain circumstances.

Language has been included under General Provisions, Department of the Interior, section 202, regarding the San Luis Unit and the Kesterson Reservoir in California.

Language has been included under General Provisions, Department of the Interior, section 203, regarding the use of diversion structures at a Bureau of Reclamation project.

Language has been included under General Provisions, Department of the Interior, section 204, regarding a feasibility study.

Language has been included under General Provisions, Department of the Interior, section 205, prohibiting funds to implement the San Joaquin River Restoration program.

Language has been included under General Provisions, Department of the Interior, section 206, prohibiting funds to purchase water in certain circumstances.

Language has been included under Energy Efficiency and Renewable Energy for the purchase, construction, and acquisition of plant and capital equipment.

Language has been included under Electricity Delivery and Energy Reliability for the purchase, construction, and acquisition of plant and capital equipment.

Language has been included under Nuclear Energy for the purchase, construction, and acquisition of plant and capital equipment.

Language has been included under Fossil Energy Research and Development for the acquisition of interest, including defeasible and equitable interest in any real property or any facility or for plant or facility acquisition or expansion, and for conducting inquires, technological investigations, and research concerning the extraction, processing, use and disposal of mineral substances without objectionable social and environmental costs under 30 U.S.C. 3, 1602 and 1603.

Language has been included under the Naval Petroleum and Oil Shale Reserves, permitting the use of unobligated balances.

Language has been included under the Strategic Petroleum Reserve, directing the Secretary of Energy to draw down and sell crude oil from the Strategic Petroleum and providing that the proceeds be deposited in the Energy Security and Infrastructure Modernization Fund for use in carrying out the Life Extension II project.

Language has been included under Science providing for the purchase, construction, and acquisition of plant and capital equipment; and for the purchase of motor vehicles and an airplane.

Language has been included under Nuclear Waste Disposal for the acquisition of real property or facility construction or expansion.

Language has been included under Innovative Technology Loan Guarantee Program crediting fees collected pursuant to section 1702(h) of the Energy Policy Act of 2005 as offsetting collections to this account and making fees collected under section 1702(h) in excess of the appropriated amount unavailable for expenditure until appropriated.

Language has been included under Innovative Technology Loan Guarantee Program prohibiting the subordination of certain interests.

Language has been included under Innovative Technology Loan Guarantee Program rescinding subsidy amounts for the cost of loan guarantees.

Language has been included under Departmental Administration providing for the hire of passenger vehicles and for official reception and representation expenses.

Language has been included under Departmental Administration providing, notwithstanding the provisions of the Anti-Deficiency Act, such additional amounts as necessary to cover increases in the estimated amount of cost of work for others, as long as such increases are offset by revenue increases of the same or greater amounts.

Language has been included under Departmental Administration, notwithstanding 31 U.S.C. 3302, and consistent with the au-

thorization in Public Law 95–238, to permit the Department of Energy to use revenues to offset appropriations. The appropriations language for this account reflects the total estimated program funding to be reduced as revenues are received.

Language has been included under Weapons Activities for the purchase, construction, and acquisition of plant and capital equipment.

Language has been included under Defense Nuclear Nonproliferation for the purchase, construction, and acquisition of plant and capital equipment and other incidental expenses.

Language has been included under Naval Reactors for the purchase, construction, and acquisition of plant and capital equipment, facilities, and facility expansion and for the purchase of aircraft.

Language has been included under Naval Reactors transferring certain funds to Nuclear Energy.

Language has been included under Federal Salaries and Expenses providing funding for official reception and representation expenses.

Language has been included under Defense Environmental Cleanup for the purchase, construction, and acquisition of plant and capital equipment; and for the purchase of passenger vehicles.

Language has been included under Other Defense Activities for the purchase, construction, and acquisition of plant and capital equipment.

Language has been included under Defense Nuclear Waste Disposal for the acquisition of real property or facility construction or expansion.

Language has been included under Bonneville Power Administration Fund providing funding for official reception and representation expenses and precluding any new direct loan obligations.

Language has been included under Southeastern Power Administration providing funds for official reception and representation expenses.

Language has been included under Southeastern Power Administration providing that, notwithstanding 31 U.S.C. 3302 and 16 U.S.C. 825s, amounts collected from the sale of power and related services shall be credited to the account as discretionary offsetting collections and remain available until expended for the sole purpose of funding the annual expenses of the Southeastern Power Administration; amounts collected to recover purchase power and wheeling expenses shall be credited to the account as offsetting collections and remain available until expended for the sole purpose of making purchase power and wheeling expenditures.

Language has been included under Southwestern Power Administration providing funds for official reception and representation expenses.

Language has been included under Southwestern Power Administration providing that, notwithstanding 31 U.S.C. 3302 and 16 U.S.C. 825s, amounts collected from the sale of power and related services shall be credited to the account as discretionary offsetting collections and remain available until expended for the sole purpose of funding the annual expenses of the Southwestern Power Administration; amounts collected to recover purchase power and wheeling expenses shall be credited to the account as offsetting col-

lections and remain available until expended for the sole purpose of making purchase power and wheeling expenditures.

Language has been included under Construction, Rehabilitation, Operation and Maintenance, Western Area Power Administration, providing funds for official reception and representation expenses.

Language has been included under Construction, Rehabilitation, Operation and Maintenance, Western Area Power Administration providing that, notwithstanding 31 U.S.C. 3302, 16 U.S.C. 825s, and 43 U.S.C. 392a, amounts collected from the sale of power and related services shall be credited to the account as discretionary offsetting collections and remain available until expended for the sole purpose of funding the annual expenses of the Western Area Power Administration; amounts collected to recover purchase power and wheeling expenses shall be credited to the account as offsetting collections and remain available until expended for the sole purpose of making purchase power and wheeling expenditures.

Language has been included under Falcon and Amistad Operating and Maintenance Fund providing that, notwithstanding 68 Stat. 255 and 31 U.S.C. 3302, amounts collected from the sale of power and related services shall be credited to the account as discretionary offsetting collections and remain available until expended for the sole purpose of funding the annual expenses of the hydroelectric facilities of those dams and associated Western Area Power Administration activities.

Language has been included under Falcon and Amistad Operating and Maintenance Fund providing that the Western Area Power Administration may accept a limited amount of contributions from the United States power customers of the Falcon and Amistad Dams for use by the Commissioner of the United States Section of the International Boundary and Water Commission for operating and maintenance of hydroelectric facilities.

Language has been included under Federal Energy Regulatory Commission to permit the hire of passenger motor vehicles, to provide official reception and representation expenses, and to permit the use of revenues collected to reduce the appropriation as revenues are received.

Language has been included under Department of Energy, General Provisions, section 301, prohibiting the use of funds to prepare or initiate requests for proposals or other solicitations or arrangements for programs that have not yet been fully funded by the Congress; requiring notification and reporting requirements for certain funding awards; limiting the use of multi-year funding mechanisms; providing that none of the funds may be available for obligation or expenditure through a reprogramming of funds except in certain circumstances; and providing that unexpended balances of prior appropriations may be transferred and merged with new appropriation accounts established in this Act.

Language has been included under Department of Energy, General Provisions, section 302, providing that funds for intelligence activities are deemed to be specifically authorized for purposes of section 504 of the National Security Act of 1947 during fiscal year 2019 until enactment of the Intelligence Authorization Act for fiscal year 2019.

Language has been included under Department of Energy, General Provisions, section 303, prohibiting the use of funds for capital

construction of high hazard nuclear facilities unless certain independent oversight is conducted.

Language has been included under Department of Energy, General Provisions, section 304, prohibiting the use of funds to approve critical decision-2 or critical decision-3 for certain construction projects, unless a separate independent cost estimate has been developed for that critical decision.

Language has been included under Department of Energy, General Provisions, section 305, limiting the amount of funds that may be transferred to the working capital fund.

Language has been included under Department of Energy, General Provisions, section 306, prohibiting nonproliferation activities in the Russian Federation until certain reporting requirements are met.

Language has been included under Department of Energy, General Provisions, section 307, limiting the authority of the Secretary of Energy to establish regional petroleum product reserves.

Language has been included under Department of Energy, General Provisions, section 308, prohibiting the use of funds for the Mixed Oxide Fuel Fabrication Facility project unless certain requirements in the National Defense Authorization Act of 2018 are met.

Language has been included under Department of Energy, General Provisions, section 309, authorizing the Secretary of Energy to draw down and sell refined petroleum product from the Strategic Petroleum Reserve under certain circumstances.

TITLE IV—INDEPENDENT AGENCIES

Language has been included under Appalachian Regional Commission providing for the hire of passenger vehicles and services authorized by 5 U.S.C. 3109.

Language has been included under Delta Regional Authority allowing the expenditure of funds as authorized by the Delta Regional Authority Act without regard to section 382C(b)(2), 382F(d), 382M and 382N of said Act.

Language has been included under Denali Commission allowing the expenditure of funds notwithstanding section 306(g) of the Denali Commission Act of 1998, and providing for cost-share requirements for Commission-funded construction projects in distressed and non-distressed communities, as defined by section 307 of the Denali Commission Act of 1998 (Division C, Title III, Public Law 105–277), and an amount not to exceed 50 percent for non-distressed communities.

Language has been included under Denali Commission allowing funding to be available for payment of a non-federal share for certain programs.

Language has been included under Northern Border Regional Commission for expenditure as authorized by subtitle V of title 40, United States Code, without regard to section 15751(b).

Language has been included under Nuclear Regulatory Commission, Salaries and Expenses that provides for salaries and other support costs for the Office of the Commission, to be controlled by majority vote of the Commission.

Language has been included under Nuclear Regulatory Commission, Salaries and Expenses that provides for official representation

expenses and permits the use of revenues from licensing fees, inspections services, and other services for salaries and expenses to reduce the appropriation as revenues are received. Funding is provided to support university research and development, and for a Nuclear Science and Engineering Grant Program.

Language has been included under the Nuclear Regulatory Commission providing funds that are not derived from fee revenues.

Language has been included under Office of Inspector General that provides for the use of revenues from licensing fees, inspections services, and other services for salaries and expenses, notwithstanding section 3302 of title 31, United States Code, to reduce the appropriation as revenues are received.

Language has been included under Independent Agencies, General Provisions, section 401, requiring the NRC to comply with certain procedures when responding to Congressional requests for information.

Language has been included under Independent Agencies, General Provision, section 402, providing that none of the funds may be available for obligation or expenditure through a reprogramming of funds except in certain circumstances.

TITLE V—GENERAL PROVISIONS

Language has been included under General Provisions, section 501, prohibiting the use of funds in this Act to influence congressional action on any legislation or appropriation matters pending before the Congress.

Language has been included under General Provisions, section 502, prohibiting the transfer of funds except pursuant to a transfer made by, or transfer authority provided in this or any other appropriations Act, or certain other authorities, and requiring a report.

Language has been included under General Provisions, section 503, prohibiting funds in contravention of Executive Order No. 12898 of February 11, 1994, regarding environmental justice.

Language has been included under General Provisions, section 504, prohibiting funds from being used to maintain or establish computer networks unless such networks block the viewing, downloading, or exchange of pornography.

Language has been included under General Provisions, section 505, prohibiting the use of funds to further implementation of components of the National Ocean Policy developed under Executive Order 13547.

Language has been included under General Provisions, section 506, prohibiting the use of funds to operate the Federal Columbia River Power System hydroelectric dams in a manner inconsistent with a 2017 operations plan.

Language has been included under General Provisions, section 507, prohibiting the use of funds for the removal of any federally-owned or operated dam unless the removal has been previously authorized by Congress.

Language has been included under General Provisions, section 508, prohibiting funds in this Act from being used to close the Yucca Mountain license application process, or for actions that would remove the possibility that Yucca Mountain might be an option in the future.

Language has been included under General Provisions, section 509, setting at $0 the amount that the proposed new budget authority exceeds the allocation made by the Committee on Appropriations under section 302(b) of the Congressional Budget Act of 1974.

PROGRAM DUPLICATION

No provision of this bill establishes or reauthorizes a program of the Federal Government known to be duplicative of another Federal program, a program that was included in any report from the Government Accountability Office to Congress pursuant to section 21 of Public Law 111–139, or a program related to a program identified in the most recent Catalog of Federal Domestic Assistance.

DIRECTED RULE MAKING

The bill does not direct any rule making.

COMPLIANCE WITH RULE XIII, CL. 3(e) (RAMSEYER RULE)

In compliance with clause 3(e) of rule XIII of the Rules of the House of Representatives, changes in existing law made by the bill, as reported, are shown as follows (existing law proposed to be omitted is enclosed in black brackets, new matter is printed in italics, existing law in which not change is proposed is shown in roman):

APPROPRIATIONS NOT AUTHORIZED BY LAW

Pursuant to clause 3(f) of rule XIII of the Rules of the House of Representatives, the following table lists the appropriations in the accompanying bill which are not authorized:

[thousand dollars]

Agency/Program	Last Year of Authorization	Authorization Level	Appropriation in Last Year of Authorization	Net Appropriation in this Bill
Corps FUSRAP	.....	[1]	.....	150,000
EERE Program Direction	2006	110,500	164,198	153,700
EERE Weatherization Activities	2012	1,400,000	68,000	251,000
EERE State Energy Programs	2012	125,000	50,000	55,000
Nuclear Energy	2009	495,000	792,000	1,346,090
Nuclear Energy Infrastructure and Facilities	2009	145,000	245,000	331,000
Fossil Energy	2009	641,000	727,320	785,000
Naval Petroleum and Oil Shale Reserves	2014	20,000	20,000	10,000
Strategic Petroleum Reserve	2003	not specified	172,856	252,000
Northeast Home Heating Oil Reserve	2003	not specified	6,000	10,000
Energy Information Administration	1984	not specified	55,870	125,000
Office of Science	2013	6,007,000	4,876,000	6,600,000
Advanced Technology Vehicle Manufacturing Program	2012	not specified	6,000	5,000
Non-Defense Environmental Cleanup:				
West Valley Demonstration	1981	5,000	5,000	75,000
Departmental Administration	1984	246,963	185,682	184,524
Atomic Energy Defense Activities:				
National Nuclear Security Administration:				
Weapons Activities	2018	10,377,475	10,642,138	11,200,000
Defense Nuclear Nonproliferation	2018	1,883,310	1,999,219	1,902,000
Naval Reactors	2018	1,431,551	1,620,000	1,788,618

[thousand dollars]

Agency/Program	Last Year of Authorization	Authorization Level	Appropriation in Last Year of Authorization	Net Appropriation in this Bill
Federal Salaries and Expenses	2018	407,551	407,595	422,529
Defense Environmental Cleanup	2018	5,440,106	5,988,048	5,759,220
Other Defense Activities	2018	816,000	840,000	870,300
Defense Nuclear Waste Disposal	2018	30,000	0	30,000
Power Marketing Administrations:				
Southwestern	1984	40,254	36,229	10,400
Western Area	1984	259,700	194,630	89,372
Federal Energy Regulatory Commission	1984	not specified	29,582	0
Defense Nuclear Facilities Safety Board	2018	30,600	31,000	31,243
Delta Regional Authority	2018	30,000	25,000	15,000
Northern Border Regional Commission	2018	30,000	15,000	12,000
Southeast Crescent Regional Commission	2018	30,000	250	250
Nuclear Regulatory Commission	1985	460,000	448,200	191,664

[1]Program was initiated in 1972 and has never received a separate authorization.

RESCISSIONS

Pursuant to clause 3(f)(2) of rule XIII of the Rules of the House of Representatives, there are no rescissions recommended in the accompanying bill.

COMPARISON WITH THE BUDGET RESOLUTION

Pursuant to clause 3(c)(2) of rule XIII of the Rules of the House of Representatives and section 308(a)(1)(A) of the Congressional Budget Act of 1974, the following table compares the levels of new budget authority provided in the bill with the appropriate allocation under section 302(b) of the Budget Act.

FIVE-YEAR OUTLAY PROJECTIONS

Pursuant to section 308(a)(1)(B) of the Congressional Budget Act of 1974, the following table contains five-year projections prepared by the Congressional Budget Office of outlays associated with the budget authority provided in the accompanying bill:

ASSISTANCE TO STATE AND LOCAL GOVERNMENTS

Pursuant to section 308(a)(1)(C) of the Congressional Budget Act of 1974, the amount of financial assistance to State and local governments is as follows:

FULL COMMITTEE VOTES

Pursuant to the provisions of clause 3(b) of rule XIII of the House of Representatives, the results of each rollcall vote on an amendment or on the motion to report, together with the names of those voting for and those voting against, are printed below:

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE I - DEPARTMENT OF DEFENSE - CIVIL					
DEPARTMENT OF THE ARMY					
Corps of Engineers - Civil					
Investigations	123,000	82,000	128,000	+5,000	+46,000
Construction	2,085,000	871,733	2,323,000	+238,000	+1,451,267
Mississippi River and Tributaries	425,000	244,735	430,000	+5,000	+185,265
Operation and Maintenance	3,630,000	2,076,733	3,820,000	+190,000	+1,743,267
Regulatory Program	200,000	200,000	200,000	---	---
Formerly Utilized Sites Remedial Action Program (FUSRAP)	139,000	120,000	150,000	+11,000	+30,000
Flood Control and Coastal Emergencies	35,000	27,000	35,000	---	+8,000
Expenses	185,000	187,000	187,000	+2,000	---
Office of Assistant Secretary of the Army (Civil Works)	5,000	5,000	5,000	---	---
Harbor Maintenance Trust Fund	---	965,132	---	---	-965,132
Inland Waterways Trust Fund	---	5,250	---	---	-5,250
Total, title I, Department of Defense - Civil	6,827,000	4,784,583	7,278,000	+451,000	+2,493,417
Appropriations	(6,827,000)	(4,784,583)	(7,278,000)	(+451,000)	(+2,493,417)

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE II - DEPARTMENT OF THE INTERIOR					
Central Utah Project					
Central Utah Project Completion Account	10,500	7,983	13,000	+2,500	+5,017
Bureau of Reclamation					
Water and Related Resources	1,332,124	891,017	1,383,992	+51,868	+492,975
Central Valley Project Restoration Fund	41,376	62,008	62,008	+20,632	---
California Bay-Delta Restoration	37,000	35,000	35,000	-2,000	---
Policy and Administration	59,000	61,000	61,000	+2,000	---
Total, Bureau of Reclamation	1,469,500	1,049,025	1,542,000	+72,500	+492,975
Total, title II, Department of the Interior	1,480,000	1,057,008	1,555,000	+75,000	+497,992
Appropriations	(1,480,000)	(1,057,008)	(1,555,000)	(+75,000)	(+497,992)
TITLE III - DEPARTMENT OF ENERGY					
Energy Programs					
Energy Efficiency and Renewable Energy	2,321,778	695,610	2,078,640	-243,138	+1,383,030
Electricity Delivery and Energy Reliability	248,329	---	---	-248,329	---
Cybersecurity, Energy Security, and Emergency Response	---	95,800	146,000	+146,000	+50,200
Electricity Delivery	---	61,309	175,000	+175,000	+113,691
Nuclear Energy	1,072,056	621,000	1,200,000	+127,944	+579,000

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Defense function	133,000	136,090	146,090	+13,090	+10,000
Subtotal	1,205,056	757,090	1,346,090	+141,034	+589,000
Fossil Energy Research and Development	726,817	502,070	785,000	+58,183	+282,930
Naval Petroleum and Oil Shale Reserves	4,900	10,000	10,000	+5,100	---
Strategic Petroleum Reserve	252,000	175,105	252,000	---	+76,895
Sale of crude oil	-350,000	-300,000	-300,000	+50,000	---
Use of sale proceeds	350,000	---	300,000	-50,000	+300,000
Subtotal	252,000	-124,895	252,000	---	+376,895
SPR petroleum account	8,400	---	10,000	+1,600	+10,000
Northeast Home Heating Oil Reserve	6,500	10,000	10,000	+3,500	---
Energy Information Administration	125,000	115,035	125,000	---	+9,965
Non-defense Environmental Cleanup	298,400	218,400	240,000	-58,400	+21,600
Uranium Enrichment Decontamination and Decommissioning Fund	840,000	752,749	870,000	+30,000	+117,251
Science	6,259,903	5,390,972	6,600,000	+340,097	+1,209,028
Nuclear Waste Disposal	---	90,000	190,000	+190,000	+100,000
Advanced Research Projects Agency-Energy	353,314	---	325,000	-28,314	+325,000
Title 17 Innovative Technology Loan Guarantee Program	33,000	10,000	32,000	-1,000	+22,000
Offsetting collection	-10,000	-15,000	-15,000	-5,000	---
Rescission	---	-240,000	---	---	+240,000
Subtotal	23,000	-245,000	17,000	-6,000	+262,000

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Advanced Technology Vehicles Manufacturing Loans program	5,000	1,000	5,000	---	+4,000
Tribal Energy Loan Guarantee Program	1,000	---	1,000	---	+1,000
Rescission	---	-8,500	---	---	+8,500
Subtotal	1,000	-8,500	1,000	---	+9,500
Departmental Administration	285,652	235,534	280,524	-5,128	+44,990
Miscellaneous revenues	-96,000	-96,000	-96,000	---	---
Net appropriation	189,652	139,534	184,524	-5,128	+44,990
Office of the Inspector General	49,000	51,330	51,330	+2,330	---
Total, Energy programs	12,918,049	8,512,504	13,421,584	+503,535	+4,909,080
Atomic Energy Defense Activities					
National Nuclear Security Administration					
Weapons Activities	10,642,138	11,017,078	11,200,000	+557,862	+182,922
Defense Nuclear Nonproliferation	2,048,219	1,862,825	1,902,000	-146,219	+39,175
Rescission	-49,000	---	---	+49,000	---
Subtotal	1,999,219	1,862,825	1,902,000	-97,219	+39,175

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Naval Reactors	1,620,000	1,788,618	1,788,618	+168,618	---
Federal Salaries and Expenses	407,595	422,529	422,529	+14,934	---
Total, National Nuclear Security Administration	14,668,952	15,091,050	15,313,147	+644,195	+222,097
Environmental and Other Defense Activities					
Defense Environmental Cleanup	5,988,048	5,630,217	5,759,220	-228,828	+129,003
Other Defense Activities	840,000	853,300	870,300	+30,300	+17,000
Defense nuclear waste disposal	---	30,000	30,000	+30,000	---
Total, Environmental and Other Defense Activities	6,828,048	6,513,517	6,659,520	-168,528	+146,003
Total, Atomic Energy Defense Activities	21,497,000	21,604,567	21,972,667	+475,667	+368,100
Power Marketing Administrations /1					
Operation and maintenance, Southeastern Power Administration	6,379	6,500	6,500	+121	---
Offsetting collections	-6,379	-6,500	-6,500	-121	---
Subtotal	---	---	---	---	---
Operation and maintenance, Southwestern Power Administration	30,288	45,802	45,802	+15,514	---
Offsetting collections	-18,888	-35,402	-35,402	-16,514	---
Subtotal	11,400	10,400	10,400	-1,000	---

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Construction, Rehabilitation, Operation and Maintenance, Western Area Power Administration	223,276	265,142	265,142	+41,866	---
Offsetting collections	-129,904	-175,770	-175,770	-45,866	---
Subtotal	93,372	89,372	89,372	-4,000	---
Falcon and Amistad Operating and Maintenance Fund	4,176	5,207	5,207	+1,031	---
Offsetting collections	-3,948	-4,979	-4,979	-1,031	---
Subtotal	228	228	228	---	---
Total, Power Marketing Administrations	105,000	100,000	100,000	-5,000	---
Federal Energy Regulatory Commission					
Salaries and expenses	367,600	369,900	369,900	+2,300	---
Revenues applied	-367,600	-369,900	-369,900	-2,300	---
General Provisions					
Title III Rescissions:					
Northeast gasoline supply reserve sale	---	-71,000	---	---	+71,000
Strategic Petroleum Reserve crude oil sale	---	-15,000	---	---	+15,000

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Strategic Petroleum Reserve use of sale proceeds	---	15,000	---	---	-15,000
Total, General Provisions	---	-71,000	---	---	+71,000
Total, title III, Department of Energy	34,520,049	30,146,071	35,494,251	+974,202	+5,348,180
Appropriations	(34,569,049)	(30,394,571)	(35,494,251)	(+925,202)	(+5,099,680)
Rescissions	(-49,000)	(-248,500)	---	(+49,000)	(+248,500)
TITLE IV - INDEPENDENT AGENCIES					
Appalachian Regional Commission	155,000	152,000	155,000	---	+3,000
Defense Nuclear Facilities Safety Board	31,000	31,243	31,243	+243	---
Delta Regional Authority	25,000	2,500	15,000	-10,000	+12,500
Denali Commission	30,000	7,300	15,000	-15,000	+7,700
Northern Border Regional Commission	15,000	850	12,000	-3,000	+11,150
Southeast Crescent Regional Commission	250	---	250	---	+250
Nuclear Regulatory Commission:					
Salaries and expenses	909,137	958,050	953,050	+43,913	-5,000
Revenues	-779,768	-805,019	-763,640	+16,128	+41,379
(Rescission)	-68	---	---	+68	---
Subtotal	129,301	153,031	189,410	+60,109	+36,379
Office of Inspector General	12,859	12,609	12,609	-250	---

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2018
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2019
(Amounts in thousands)

	FY 2018 Enacted	FY 2019 Request	Bill	Bill vs. Enacted	Bill vs. Request
Revenues	-10,555	-10,355	-10,355	+200	---
Subtotal	2,304	2,254	2,254	-50	---
Total, Nuclear Regulatory Commission	131,605	155,285	191,664	+60,059	+36,379
Appropriations	(131,673)	(155,285)	(191,664)	(+59,991)	(+36,379)
Rescissions	(-68)	---	---	(+68)	---
Nuclear Waste Technical Review Board	3,600	3,600	3,600	---	---
Total, title IV, Independent agencies	391,455	352,778	423,757	+32,302	+70,979
Appropriations	(391,523)	(352,778)	(423,757)	(+32,234)	(+70,979)
Rescissions	(-68)	---	---	(+68)	---
Grand total	43,218,504	36,340,440	44,751,008	+1,532,504	+8,410,568
Appropriations	(43,267,572)	(36,588,940)	(44,751,008)	(+1,483,436)	(+8,162,068)
Rescissions	(-49,068)	(-248,500)	---	(+49,068)	(+248,500)

1/ Totals adjusted to net out alternative financing costs, reimbursable agreement funding, and power purchase and wheeling expenditures. Offsetting collection totals only reflect funds collected for annual expenses, excluding power purchase wheeling